CE 0088

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ACCU-CHEK® Compact Plus

BLOOD GLUCOSE MONITORING SYSTEM

User's Manual

Roche

On the packaging, on the type plate of the meter and on the lancing device you may encounter the symbols shown below. They have the following meanings:

Please consult instructions for use

REF Catalogue number

IVD For in vitro diagnostic use

Store at

Use by/ Expiry date

LOT Lot number

CE 0088 Blood glucose meter and test strips: These products fulfil the requirements of Directive 98/79/EC on in vitro diagnostic medical devices.

Lancing device and lancets: These products fulfil the requirements of Directive 93/42/EEC on medical devices.

Manufacturer

Caution (refer to accompanying documents). Please refer to safety-related notes in the manual accompanying this instrument.

For single use only

STERILE R Sterilized through irradiation

Last update: November 2005

Intended Use

Blood glucose meter for the quantitative determination of blood glucose in fresh capillary blood using Accu-Chek Compact test strips.
Suitable for self-testing.
The Accu-Chek Compact Plus meter may be used by people with diabetes to test their own blood glucose as well as for blood glucose determination by healthcare practitioners in a professional setting.

Healthcare professionals must observe additionally the directions in Chapter 8 “Blood glucose testing in a multi-patient setting”.

The Accu-Chek Softclix Plus lancing device is intended for patient self-monitoring by a single person.

It must not be used to collect blood from more than one person as this poses an infection risk.

Any object coming into contact with human blood is a potential source of infection (see “Clinical and Laboratory Standards Institute: Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition; CLSI document M29-A3, 2005”).

Contents

1 Introduction 6
- 1.1 The Accu-Chek Compact Plus blood glucose meter at a glance 6
- 1.2 The Accu-Chek Softclix Plus lancing device at a glance 10
- 1.3 Main features 12
- 1.4 About this User's Manual 15

2 Initial steps before testing 18
- 2.1 Checking the contents 18
- 2.2 Checking the blood glucose unit 18
- 2.3 Inserting or replacing batteries 19
- 2.4 Performing a full display check 24
- 2.5 Inserting or replacing the test strip drum 26

3 Settings 37
- 3.1 Turning the beep tone on/off 41
- 3.2 Setting the year 43
- 3.3 Setting the time/date format 44
- 3.4 Setting the time 45
- 3.5 Setting the date 47
- 3.6 Setting the alarm clock function 49
- 3.7 Setting the hypo indicator 55

4 Testing blood glucose 58
- 4.1 Preparing the lancing device 58
  - 4.1.1 Undocking the lancing device from the meter 60
  - 4.1.2 Docking the lancing device onto the meter 61
  - 4.1.3 Inserting the lancet 62
- 4.2 Testing blood glucose 65
  - 4.2.1 Obtaining blood 67
  - 4.2.2 Applying blood to the test strip 71
  - 4.2.3 Ejecting the test strip 75
  - 4.2.4 Ejecting the used lancet 78
  - 4.2.5 Flagging special results 82
- 4.3 Evaluating results 83
  - 4.3.1 Plausible results 83
  - 4.3.2 Implausible results – possible causes of error 84

5 Using your meter as an electronic notebook 86
- 5.1 Memory 86
- 5.2 Viewing test results 87
- 5.3 Averages, highest value and lowest value for 7, 14 and 30 days 89
- 5.4 Downloading test results to a PC, handheld computer or printer 92

6 Checking your meter 96

7 Cleaning your Accu-Chek Compact Plus system 107
7.1 Cleaning the meter 107
7.2 Cleaning the lancing device 111

8 Blood glucose testing in a multi-patient setting - Supplementary information for healthcare professionals ... 112
8.1 Replacing the lancing device with a blanking plate 114
8.2 Testing for blood glucose 116
8.3 Disinfecting the meter 120
8.4 Suitable disinfectants 125

9 Measurement and storage conditions 126
9.1 Temperature range 126
9.2 Atmospheric humidity 129
9.3 Sources of interference 129

10 Symbols, display messages and troubleshooting 130
10.1 Symbols 131
10.2 Display messages and troubleshooting 138

11 Technical data 162

12 Disposing of your meter 166

13 System components 167

14 Guarantee 168

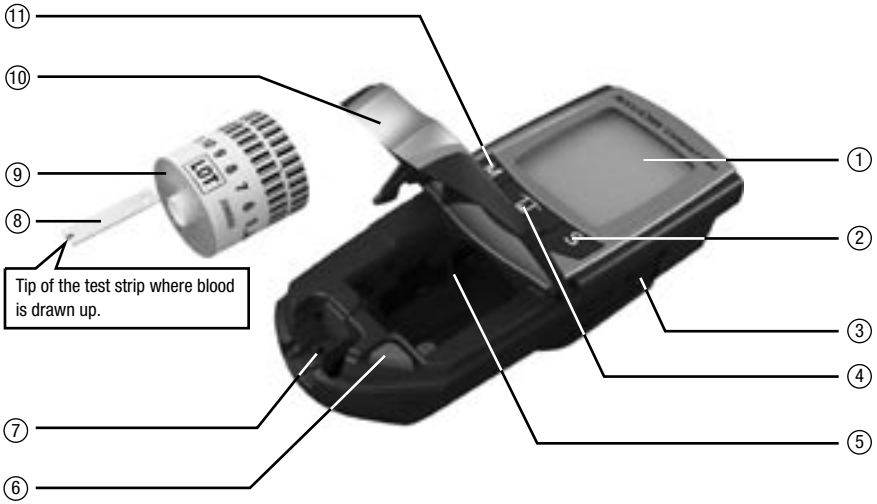
15 Patents 169

16 Local customer support and service 170
16.1 Information and repair 170
16.2 Contact us 171

17 Alphabetical index 172

1 Introduction

1.1 The Accu-Chek Compact Plus blood glucose meter at a glance



Front

① Display window

② S button
Press this button to change settings.

③ Recess for docking the lancing device

④ Test button
*Use this button **only** if you want to test your blood glucose or perform a quality control check. Pull the button downwards towards the drum compartment cover. The button tips downwards and the meter turns on. This pull-tip mechanism stops the meter turning on inadvertently.*

⑤ Drum compartment

⑥ Drum release button

⑦ Measuring window

⑧ Test strip

⑨ Test strip drum

⑩ Drum compartment cover*

⑪ M button
Press this button to retrieve results stored in the meter's memory.

* available as replacement part

Back

⑫ Battery compartment cover*

⑬ Infrared window

⑭ Batteries: type AAA, LR 03, AM 4, Micro

⑮ Battery compartment

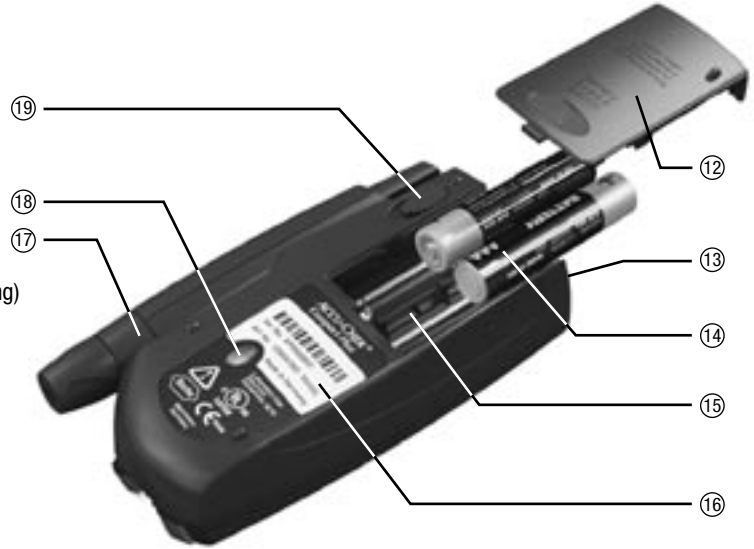
⑯ Type plate

⑰ Lancing device*

⑱ Control window (shows the number of strips remaining)

⑲ Slide button for undocking the lancing device

* available as replacement part



1.2 The Accu-Chek Softclix Plus lancing device at a glance

⑳ Plunger
The plunger is a multifunction button used to prime, trigger and eject the lancet.

㉑ Window showing the penetration depth setting

㉒ Lancet holder

㉓ Lancet

㉔ Protective cap on lancet

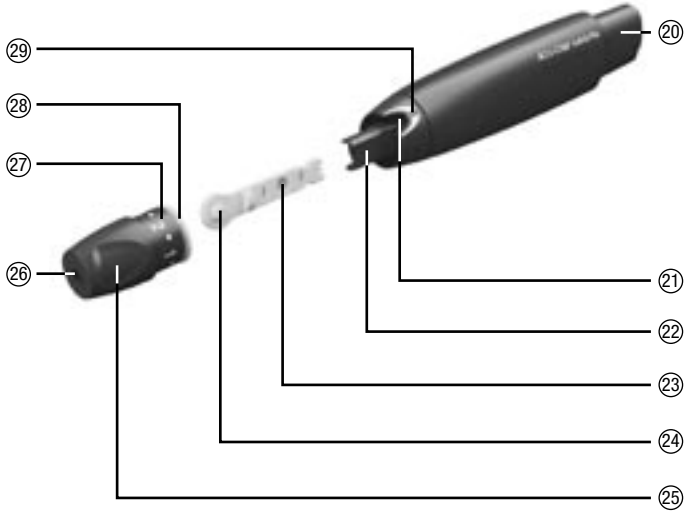
㉕ Cap

㉖ Pin-hole opening for lancet

㉗ Comfort Dial (for depth selection)

㉘ Locating notch

㉙ Locating line



1.3 Main features

The meter is supplied with batteries already inserted. The time and date are already set. You may need to adjust these settings to your own time zone (see Chapter 3 “Settings”).

Docked lancing device
The meter comes with an attached Accu-Chek Softclix Plus lancing device. You can leave it docked onto the meter to collect blood or, if you prefer, you can undock it.

Test strip drum instead of individual test strips
You never need to touch a test strip. Simply insert a drum with 17 test strips into the meter.

Easy to operate
Turn the meter on, apply blood, read the result, press the button to eject the test strip.

Self-coding
Every test strip drum has its own bar code. The meter is automatically coded whenever you insert a new drum, a process which provides the meter with information on the specific characteristics of the test strips.

Reliability
The meter checks each test strip. If it finds a defective strip, it lets you know before you apply blood.

Blood volume checking
The meter can tell when you have applied sufficient blood (approximately 1.5 µL (1 microlitre = 1 thousandth of a millilitre)). It waits until then before starting the measurement. If the measurement does not start, you may apply more blood.

Alarm clock function
The meter can remind you to test your blood glucose. You can set an acoustic signal to remind you at three different times.

Hypo indicator function
You can turn on a visual as well as an acoustic signal to warn you if your result is unusually low. This prompts you to check your result carefully to see if you are heading towards a possible hypo (low blood glucose).

Downloading data to a computer
The meter has an infrared window enabling you to download results to a computer running the appropriate software.

Acoustic Mode

Acoustic Mode is intended for persons who are visually impaired. When Acoustic Mode is turned on, the meter guides the user through the testing process using beep tones; it also outputs the result as a series of beeps.

Visually impaired persons need a sighted person to instruct them in the use of the meter and to assist them with all aspects of its operation. Visually impaired persons must not test their blood glucose without assistance from a sighted person.

A separate manual, the User's Manual for Acoustic Mode, describes Acoustic Mode and operation of the Accu-Chek Compact Plus meter in Acoustic Mode. It contains information on beep tones, how and when the meter uses them, and what they mean. Also contained in the separate User's Manual are descriptions of the operation of the meter and lancing device that have been specially adapted to help sighted persons instruct visually impaired persons in the functions of the meter or supervise its use.

The User's Manual for Acoustic Mode is available in written and spoken form. Both versions are available through your local customer support and service centre. Details are given at the end of this User's Manual.

1.4 About this User's Manual

Please read this User's Manual carefully and completely before testing blood glucose for the first time.

This User's Manual will help you get to know your new Accu-Chek Compact Plus meter step by step. It will provide you with all the information you need to operate and care for your meter and to deal with any errors that might occur. Remember that, in order to keep your meter in good working condition, you need to follow the correct operating procedures and also observe certain other instructions. The Accu-Chek Compact Plus meter is a precision instrument. Improper treatment can impair its function.

Should you have any questions, please contact your local customer support and service centre. Details are given at the end of this User's Manual.

This User's Manual features three symbols that draw your attention to important information. Please read these points with special care.

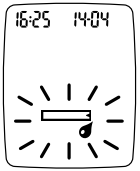
This symbol indicates **a possible risk of injury or of damage to your own health or to the health of others**.

This symbol draws attention to actions that could result in **damage to the meter or to the lancing device**.

This symbol draws your attention to other important information.

Throughout this User's Manual you will see examples of what the display looks like. Any elements that flash are shown surrounded by a halo.

Example:
You have turned on the meter to perform a blood glucose test. In the display you see the time and date plus the test strip symbol and blood drop symbol. Both symbols are flashing.



The time, date and blood glucose results shown in the display illustrations are intended only as examples. They will not necessarily be the same as those shown by your own meter. The meter that is used for illustration in this manual displays blood glucose results in mmol/L (see Chapter 2.2 "Checking the blood glucose unit") and has been set to 24-hour format (see Chapter 3.3 "Setting the time/date format"). Your meter, on the other hand, may show blood glucose test results in mg/dL and/or display the time in 12-hour format.

We recommend that you start by getting to know all of the features of your meter shown on pages 6 - 11 of this User's Manual. Try out all of the steps described in this User's Manual, and also practise performing a test.

2 Initial steps before testing

2.1 Checking the contents

Check that your monitoring kit is complete. The package contents are listed on the box.
If anything is missing, please contact your local customer support and service centre. Details are given at the end of this User's Manual.

2.2 Checking the blood glucose unit

Blood glucose results can be displayed in two different units (mmol/L or mg/dL). Consequently, Roche sells two different versions of the same meter. Check that your meter displays the unit you are accustomed to. The type plate on the back of your meter indicates which unit your meter uses. If you do not know which is the right unit for you, ask your doctor.

The unit that your meter displays cannot be changed. If the wrong unit is printed on the type plate, please consult your dealer or pharmacy. Using the wrong unit can cause you to misinterpret the test results.

2.3 Inserting or replacing batteries

- If the meter is on, press the Test button to turn it off.
- Press lightly on the battery compartment cover and slide it in the direction of the arrow.
- Lift off the cover.

- Remove any used batteries.
- Insert two new batteries (type AAA, LR 03, AM 4 or micro). The minus (-) ends of the batteries must match up with the minus marks in the battery compartment.

- Re-attach the battery compartment cover. The three hooks underneath the cover must engage with the slots along the edge of the battery compartment. The cover is then just loosely held in position.
- Slide the battery compartment cover back in place. There will be an audible CLICK as it closes.

When you replace the batteries, your results always remain saved.

The year, time and date settings, however, only remain saved as long as

- you don't take longer than two minutes to change the batteries,
- you don't press any button while no batteries are inserted,
- you don't open or close the drum compartment while no batteries are inserted.

If one of the above conditions is not met, you will need to re-enter the year, time and date (see Chapter 3 "Settings").

If you do not enter the year, time and date, all future results will be displayed and saved without the time and date. In that case the test results saved in memory will be numbered consecutively so you can still recognize the order in which they were saved.

A new pair of batteries has enough power for at least 1000 tests or to last one year. If you use the meter in Acoustic Mode, they will not last as long.

When the battery symbol first appears in the display the batteries are running low. You can perform about 50 more tests. You should, however, replace the batteries as soon as possible. By then the batteries will have been heavily drained, and changeable conditions (e.g. cold surroundings) can affect their performance even further.

You can also use rechargeable NiMH batteries. If you do, please note the following:

- The number of tests you can perform with recharged batteries is considerably less than with ordinary batteries.
- To be ready to test at any time, you will need two rechargeable batteries in reserve which you can charge while the first pair are in the meter.
- Recharged batteries lose their charge during storage.
- When the battery symbol first appears, you can perform significantly fewer than 50 more tests. With old and exhausted rechargeable batteries you may not even be able to perform one more test.
- The performance and useful life of rechargeable batteries depends to a large extent on the quality of the battery charger you are using.
- Owing to the higher power consumption in Acoustic Mode, we advise against using rechargeable batteries if you want to use your meter in Acoustic Mode.

It is a good idea to use up the test strip drum that is in the meter before you replace the batteries. If the drum remains in the meter while you change the batteries, it may take the meter a long time to advance the next strip from the drum. The meter can also no longer calculate the 90-day use-by deadline (see Chapter 2.5 “Inserting or replacing the test strip drum”).

Never throw batteries into a fire. This is dangerous because they may explode.

Remove the batteries if you will not be using your meter for any length of time.

Think of the environment. Dispose of used batteries sensibly.

2.4 Performing a full display check

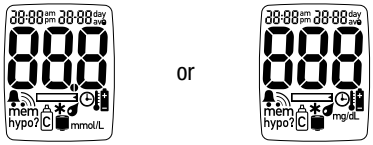
To check that all of the elements are properly displayed, you should carry out a full display test.

► Press and hold down the M button.

The meter turns on. As long as you hold down the M button, all the display elements are visible.

► Compare the display screen of your meter with the one shown below.

mmol/L meter *mg/dL meter*



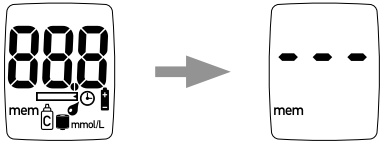
or

All elements displayed

If any of the display elements are missing or the unit shown for the blood glucose result is not the correct one, please ask your dealer to exchange the meter.

► Release the M button.

The standard display test screen that is shown each time the meter is turned on appears briefly. When it disappears, the meter is in memory mode. As no results have yet been saved, three bars are displayed.



► Press the Test button to turn the meter off.

ⓘ The meter automatically turns off after 60 seconds even if you keep the M button pressed.

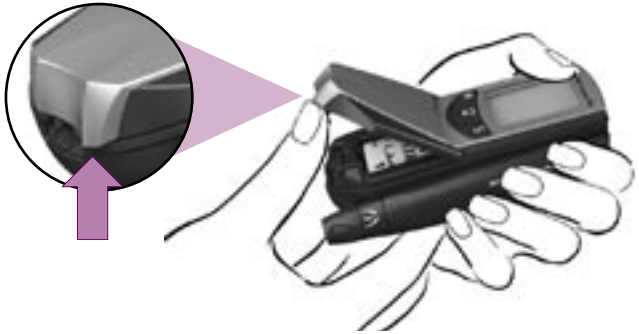
ⓘ You can perform a full display test whenever you wish. If there are already results saved in memory, the most recently saved result is displayed when you release the button.

2.5 Inserting or replacing the test strip drum

- Read the package insert that came with the test strip drums.
- If the meter is on, press the Test button to turn it off.
- Wait for the motor to stop before you open the meter.

Only open the meter when it is turned off and the motor is not running. Opening the drum compartment when the meter is turned on may result in damage to the meter.

- Open the drum compartment cover by lifting where it projects slightly to the right of the test strip guide.



If your meter is brand new and unused, it will contain a mock drum (an empty test strip drum without a label). Please remove this mock drum.

Whether a test strip drum is inserted or not:

- Press the red drum release button. The pin holding the test strip drum in position retracts with an audible CLICK.

If there is a test strip drum in the meter:

► Tip the meter forwards. The test strip drum drops out.

You can dispose of used test strip drums with your regular household waste.

► Insert a new test strip drum. The illustration shows which way round it should be inserted.

► Close the drum compartment cover and push it shut. There will be an audible CLICK.

Ensure that the drum compartment cover is tightly closed. If it is not properly closed, you cannot turn the meter on by pressing the Test button.

The meter turns on and rotates the drum until the first test strip is in the correct position. At the same time the meter reads the bar code that provides it with information on the specific characteristics of the test strips. After that, the meter turns off.

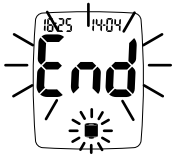
A dot appears in the small control window on the back of the meter. This indicates that you have just inserted a test strip drum. When you perform a blood glucose test, the meter counts the number of test strips that you have used and displays the number of strips remaining.

⚠ Use only test strips that are within the expiry date. Expired test strips can produce incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects. The expiry date is printed next to the symbol ⌛ on the container the drum came in.

When all the test strips in a drum have been used up, the dot reappears in the small control window.

► Insert a new drum.

If you do not insert a new drum, the following message appears the next time you turn on the meter:



End and the drum symbol are flashing to indicate that the test strip drum is empty.

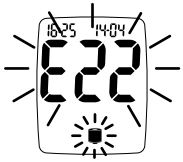
Use only new test strips. Make sure the aluminium foil (the “silver ends”) is intact on both sides. Your blood glucose results may be incorrect if you use a damaged drum. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

Handle the test strip drums with care! Only remove a test strip drum from its container when you intend to use it. The container protects the aluminium foil on the drum from damage.

There is a label on the container the drum came in. The left portion may be peeled off. On it are two different concentration tables for Accu-Chek Compact Control and Accu-Chek Compact Autocontrol solutions. The stated concentrations are valid only for the test strips contained in this particular drum. You need the tables to check your meter. You may, for instance, wish to stick the peel-off label in your notebook or diary. When conducting a quality control test always check that the peel-off label with the concentration table belongs to the test strips that are currently in the meter (see Chapter 6 “Checking your meter”).

Use only Accu-Chek Compact test strip drums. Other test strips cannot be used to perform tests.

If you insert a different test strip drum, the following message will be displayed:

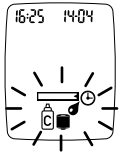


Only open the drum compartment when you intend to insert a new test strip drum or the meter requests you to clean the measuring window (see Chapter 7.1 “Cleaning the meter”). If you open and close the drum compartment while a drum is still inside, the meter assumes that you have inserted a drum that is already partly used (see below).

Test strip drum use-by period

When you insert a new drum, the meter starts to count the number of days the drum has been in the meter. Each drum must be used up within a 90-day use-by period.

If a drum has been in the meter for 90 days and you turn the meter on to perform a blood glucose test, the following symbols appear flashing in the display:



- test strip and blood drop, indicating that you may now apply blood,
- drum, bottle and clock, indicating that the 90-day use-by period for the drum has expired.

⚠ The test strips in this drum cannot be used. You must not use these test strips as they may produce incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

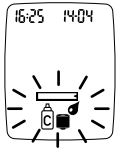
▶ Insert a new test strip drum.

The meter is unable to calculate the 90-day use-by period if you

- remove a partly used drum from the meter and then insert it again,
- take longer than two minutes to replace the batteries (in which case the year, date and time settings are lost) and a partly used drum remains in the meter.

The meter has no way of telling when the drum was first inserted or how long the partly used drum has already been in the meter.

If the meter cannot calculate the use-by period and you turn the meter on to perform a blood glucose test, the following symbols appear flashing in the display:



- Test strip and blood drop, indicating that you may now apply blood.
- Drum, indicating that the use-by period cannot be calculated.
- Bottle, requesting you to perform a quality control test in order to check the test strips.

► Perform a quality control check (see Chapter 6 “Checking your meter”).

If the test produces a correct result, you may continue to use the test strips. If the result is incorrect, you need to insert a new drum.

Following the quality control check, the bottle symbol disappears from the display. The drum symbol continues to flash in order to draw your attention to the fact that the meter cannot calculate the 90-day use-by period or the drum symbol and the clock both flash to indicate that the drum has been in use for more than 90 days. If you do not perform a quality control check, the flashing bottle symbol appears with every test until you insert a new drum. The drum symbol or the drum and clock symbols only disappear when you insert a new drum. All results are saved with the flashing drum symbol or, where appropriate, with both the flashing drum and clock symbols.

If you insert a partly used drum in the meter, a dot appears in the small control window at the back. When you next turn the meter on, it rotates the drum until it finds the first chamber containing a test strip. The fewer test strips there are in the drum, the longer the process takes. The control window allows you to see the drum being rotated from one chamber to the next.

3 Settings

You can change the settings of your meter to turn the beep tone on or off, to select the year, the time/date format, the time and the date, and to activate the alarm clock function and the hypo indicator.

The meter is supplied with batteries already inserted. The time and date are already set. You may need to adjust these settings to your own time zone.

When you turn the meter on for the first time, it has the following presettings (which you can change).

- The beep tone is on: On 1
- Year: current year, e.g. 2005
- Time/date format:
  24 h display format with accompanying day-month/DD-MM date format
- Time: current time based on Central European Time
- Date: current date based on Central European Time
- Alarm clock function: OFF
- Hypo indicator: OFF

You must adjust the year, time and date to enable the meter to correctly allocate test results to a particular day or time.

You have the option of setting the alarm clock function and hypo indicator, but you do not have to.

The procedure for changing the settings is as follows:

▶ Press the S button to call up the settings menu. A test strip is not advanced.

When a setting flashes in the display, this indicates that you can change it.

▶ Press the M button to change the current setting.

- Numerals such as the year, time and date can be incremented to a certain value, then the count-up starts again from the beginning.
- In the case of settings that give you a choice of options, e.g. the beep tone setting, pressing the M button presents each option in turn.

▶ Press the S button to save the chosen setting and move on to the next setting.

▶ You can change the settings at any time. Press the S button repeatedly until the setting you wish to change is displayed flashing.

You can close the settings menu at any time by pressing the Test button. All settings you have entered up to that point are saved.

Always turn the meter on with the S button when you intend to change the settings.

If you turn the meter on with the Test button and there is a drum in the meter, a test strip will be advanced.

The meter turns off automatically after approximately 60 seconds if you do not press a button. All settings you have confirmed up to that point with the S button are retained. Settings that you have not confirmed with the S button are lost and the original setting remains.

The year, time and date settings are lost when you change the batteries if

- you take longer than two minutes to do so,

or

- you press a button while no batteries are inserted,

or

- you open or close the drum compartment while no batteries are inserted.

If this happens, you have to reset the year, time and date so that you can clearly distinguish between test results. If you do not set the year, time and date, a series of zeros (0:00 and 0-00) will be displayed whenever you perform a test instead of the time and date, and your future results will be saved without the year, time and date. In this case the test results saved in memory will be numbered consecutively so you can still recognize the order in which they were saved.

Statistical evaluations such as calculating averages (see Chapter 5 “Using your meter as an electronic notebook”) and computer downloads (see Chapter 5.4 “Downloading test results to a PC, handheld computer or printer”) are only possible with results saved together with the year, time and date.

If you lose the year, date and time settings, the meter returns to the following settings:

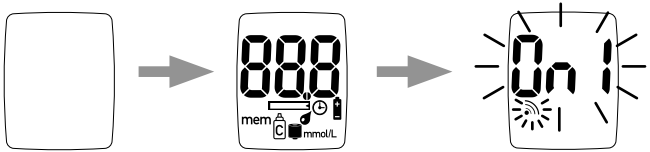
- Year: year of manufacture 20XX, e.g. 2005
- Time: 0:00 or 12:00 a.m., depending on the time/date format you had selected previously
- Date: 1-01 as day-month (D-MM) or month-day (M-DD), depending on the time/date format you had selected previously.

3.1 Turning the beep tone on/off

With the beep tone turned on, the meter beeps

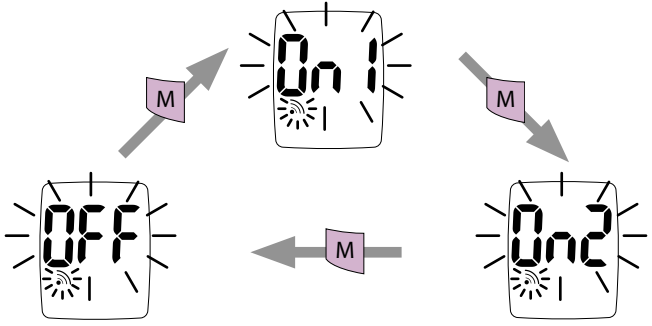
- to ask you to apply blood or control solution,
- when you have applied sufficient blood or control solution and the test commences,
- when it displays the result,
- each time it displays an error message.

▶ With the meter turned off, press the S button. The meter turns on without advancing a test strip.



The symbol for the beep tone and **On 1** flash in the display.

► Press the M button to move to the next option.



On 1: The beep tone is on.

On 2: Acoustic Mode is on (see page 14).

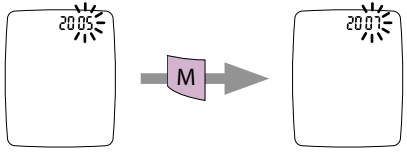
OFF: The beep tone and Acoustic Mode are off.

► Press the S button to save the chosen setting. The year setting comes next.

3.2 Setting the year

The **year** that is currently set flashes at top right of the display.

► Press the M button repeatedly until the correct year is displayed. Each push will advance one year.



If you hold the M button down, the meter fast-scrolls forward to the production year +32, and then starts again with the year of manufacture.

► Press the S button to save the chosen setting. The time/date format setting comes next.

ⓘ The year you have set is not displayed during testing, nor together with the result, nor when you look at saved results in memory. However, having the correct year setting is still important because without it the meter will not be able to recognize February 29th in a leap year. The correct year setting is also needed to unambiguously identify your blood glucose test results when you download them from the meter's memory to a computer.

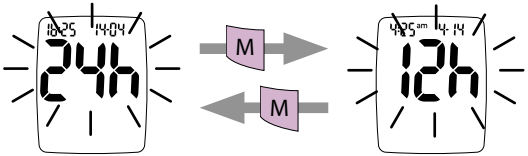
3.3 Setting the time/date format

You can choose between the two formats: In 24-hour format the time is displayed from 0:00 to 23:59. If you select this format, the date is displayed in the format DD-MM (day-month). In 12-hour format the time is displayed from 1:00 to 12:00 with a.m. or p.m. If you choose this format, the date format changes to MM-DD (month-day).

The **date/time format** that is currently set flashes in the display. The presetting for the date/time format is 24-hour format.

- Press the M button to select 12-hour format. **12h** is displayed.

  If you press the M button again, **24h** appears again.

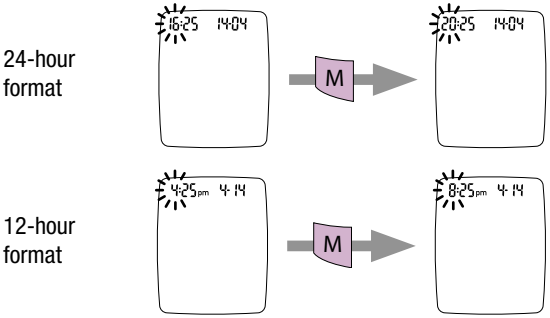


- Press the S button to save the chosen setting. The time setting comes next.

3.4 Setting the time

The **hour** flashes at top left of the display.

- Press the M button repeatedly until the correct hour is displayed. The meter increments the hours.



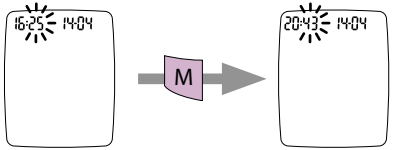
24-hour format: If you hold the M button down, the meter fast-scrolls forward to 23, and then starts again at 0.

12-hour format: If you hold the M button down, the meter fast-scrolls forward to 12 p.m. and then to 12 a.m and then starts again from the beginning.

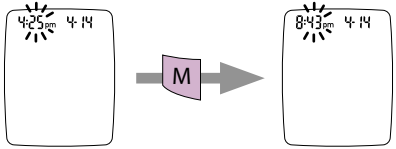
- Press the S button to save the chosen setting. The minute setting comes next. The **minutes** flash at top left of the display.

- Press the M button repeatedly until the correct minute is displayed. The meter increments the minutes.

24-hour format



12-hour format



If you hold the M button down, the meter fast-scrolls forward to 59, and then starts again at 0.

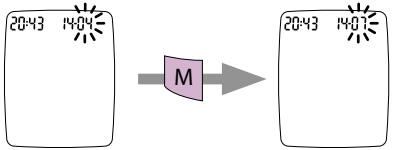
- Press the S button to save the chosen setting. The date setting comes next.

3.5 Setting the date

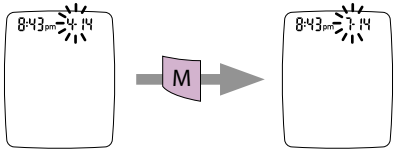
The numeral representing the **month** flashes at top right of the display.

- Press the M button repeatedly until the correct month is displayed. The meter increments the month.

24-hour format



12-hour format

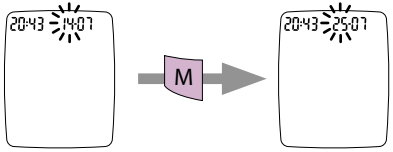


If you hold the M button down, the meter fast-scrolls forward to 12, and then starts again at 1.

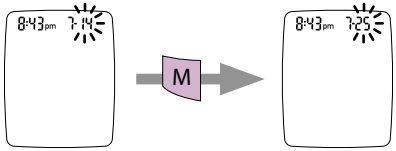
- Press the S button to save the chosen setting. The day setting comes next. The numeral representing the **day** flashes at top right of the display.

▶ Press the M button repeatedly until the correct day is displayed. The meter increments the day.

24-hour format



12-hour format



If you hold the M button down, the meter fast-scrolls forward to 31, and then starts again at 1.

▶ Press the S button to save the chosen setting. The alarm clock setting comes next.

- If you wish to set neither the alarm clock function nor a hypo indicator:

  ▶ Press the Test button to turn the meter off.

or

- If you do not wish to set the alarm clock function but do wish to set a hypo indicator:

  ▶ Press the S button repeatedly until you reach the hypo indicator setting (see Chapter 3.7 “Setting the hypo indicator”).

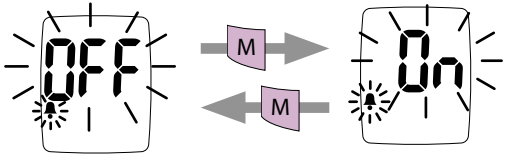
3.6 Setting the alarm clock function

You can enter up to three separate times at which you would like your meter to remind you to test your blood glucose.

OFF and the bell symbol flash in the display. The presetting is: alarm clock function off.

▶ Press the M button to turn the alarm clock function on.

Pressing the M button again turns the alarm clock function off.



After you have turned on the alarm clock function, you need to set the times. You can set up to three different times.

However, you do not have to set all three alarm times.

If you choose to enter only one or two times,

- press the Test button to turn the meter off once you have entered the time(s) and the hour for the next time is flashing,

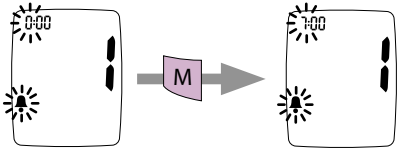
or

- press the S button repeatedly until you reach the hypo indicator setting (see Chapter 3.7 “Setting the hypo indicator”.

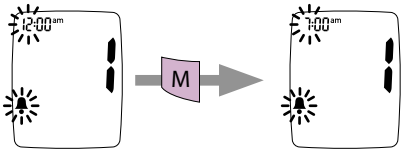
▶ Press the S button.
The display shows a 1 and, at top left, the first time at which you wish to receive the alarm call. The presetting is 0:00 (24-hour format) or 12:00 a.m. (12-hour format). The **hour** flashes in the display.

▶ Press the M button repeatedly until the correct hour is displayed.
The meter increments the hours.

24-hour format



12-hour format



24-hour format: If you hold the M button down, the meter fast-scrolls forward to 23, and then starts again at 0.

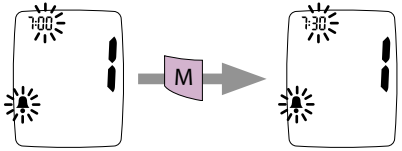
12-hour format: If you hold the M button down, the meter fast-scrolls forward to 12 p.m. and then to 12 a.m.

- Press the S button to save the chosen setting. The minute setting comes next.

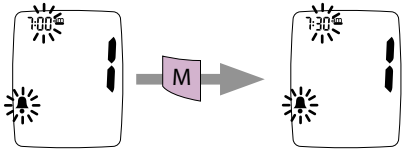
The **minute** flashes in the display.

- Press the M button repeatedly until the correct minute is displayed. The meter increments the minutes.

24-hour format



12-hour format



If you hold the M button down, the meter fast-scrolls forward to 59, and then starts again at 0.

- Press the S button to save the chosen setting. The setting for Time 2 comes next.

24-hour format

12-hour format

- To set Time 2, proceed as described for Time 1

or

- if you do not wish to enter an additional time and also do not wish to enter a hypo indicator, press the Test button to turn the meter off

or

- if you do not wish to enter a further time but you do wish to enter a hypo indicator, press the S button repeatedly until you reach the hypo indicator setting (see Chapter 3.7).

The Time 2 setting is followed by the Time 3 setting.

24-hour format

12-hour format

▶ If you wish to set Time 3, proceed as described for Time 1.

The setting for Time 3 is followed by the hypo indicator setting.

▶ If you do not wish to enter a hypo indicator, press the Test button to turn the meter off.

The beep tone for the alarm clock function sounds for 20 seconds. To stop the beep tone press any button (Test, M or S).

Your test reminder time settings remain saved, even if you turn the alarm clock function off altogether (🔔 OFF).

You can turn off individual times for the alarm clock function by setting the time to 0:00 (24-hour format) or 12:00 a.m. (12-hour format). Any other time means that the alarm clock function is turned on for this time.

To set the alarm clock function for midnight you must therefore set the time to one minute to midnight (23:59 or 11:59 p.m.) or to one minute after midnight (0:01 or 12:01 a.m.).

3.7 Setting the hypo indicator

To help you to recognize a possible hypo, you can set the meter to let you know when your test result indicates a low blood glucose. You can select what blood glucose level you want this indicator to have. There are three options. If your blood glucose result is below the level you have chosen, the warning **hypo?** appears in the display together with the result. If the beep tone is turned on (On 1), the meter also beeps.

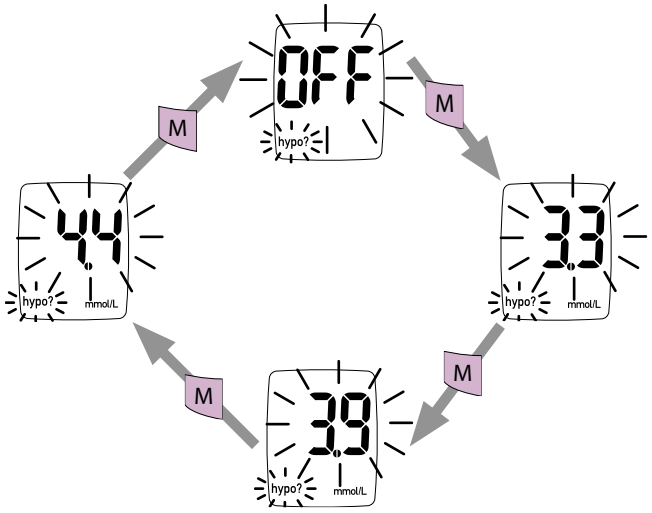
ⓘ You cannot set the hypo indicator if you have turned Acoustic Mode on (On 2). This is to prevent it from being confused with other beep tones. If you have already set a level, the hypo indicator is automatically turned off if you subsequently turn Acoustic Mode on.

OFF and **hypo?** flash in the display. The presetting is: hypo indicator off.

You can choose between the following hypo indicator levels:

- 3.3 mmol/L (60 mg/dL)
- 3.9 mmol/L (70 mg/dL)
- 4.4 mmol/L (80 mg/dL)

▶ Press the M button to move to the next option.



▶ When your chosen level is displayed, press the Test button to turn the meter off. The hypo indicator is then set to this level.

If you wish to turn the hypo indicator off again:

▶ Press the S button to turn the meter on.

▶ Press the S button repeatedly until **hypo?** and the level you have chosen appear in the display.

▶ Press the M button to select OFF.

▶ Press the Test button to turn the meter off.

⚠ The hypo indicator is only reliable if your hypo indicator level has been properly selected. Therefore we strongly recommend that you talk to your healthcare professional about what blood glucose level is your hypo level before you set the indicator. This function is **no** substitute for hypoglycaemia training by your doctor or diabetes team.

ⓘ The blood glucose level indicating a hypo may vary from person to person. Therefore we recommend leaving the hypo indicator function turned off when using the meter in a professional setting.

4 Testing blood glucose

The Accu-Chek Compact Plus meter may be used by people with diabetes to test their own blood glucose as well as for blood glucose determination by healthcare practitioners in a professional setting.

Healthcare professionals must observe additionally the directions in Chapter 8 “Blood glucose testing in a multi-patient setting”.

Any object coming into contact with human blood is a potential source of infection (see “Clinical and Laboratory Standards Institute: Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition; CLSI document M29-A3, 2005”).

4.1 Preparing the lancing device

The Accu-Chek Softclix Plus lancing device allows virtually pain-free collection of blood from a fingertip or earlobe. You can choose one of 11 different penetration depth settings to suit your own skin type. You can use the lancing device either docked with the meter, or undocked.

The lancing device has a plunger at the top (see illustration on page 11). This plunger has three functions:

- priming the lancet
- triggering the lancet to collect blood
- ejecting the used lancet

You can perform all of these functions using just one hand. To activate a function just press the plunger down.

The cap at the lower end of the lancing device rotates. Use this “Comfort Dial” to set the penetration depth.

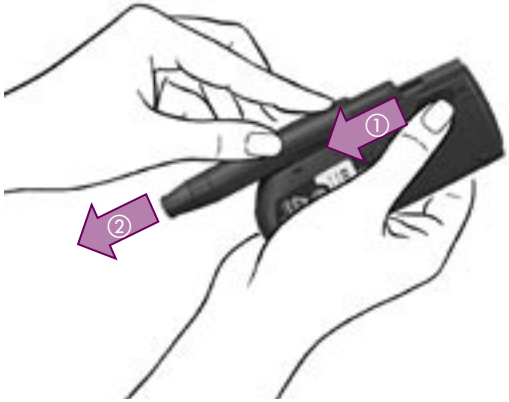
The Accu-Chek Softclix Plus lancing device is intended for patient self-monitoring by a single person. It must not be used on more than one person due to the risk of infection.

Healthcare professionals testing blood glucose in a multi-patient setting may wish to replace the lancing device by a blanking plate (see Chapter 8.1 “Replacing the lancing device with a blanking plate”).

Only use Accu-Chek Softclix lancets in your Accu-Chek Softclix Plus lancing device. Using any other lancets may damage the lancing device or impair its function.

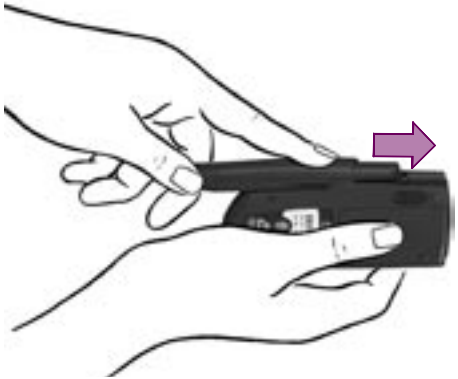
4.1.1 Undocking the lancing device from the meter

- Push the slide button in the direction indicated by the arrow (1) and hold it there.
- Withdraw the lancing device in the direction indicated by the arrow (2).



4.1.2 Docking the lancing device onto the meter

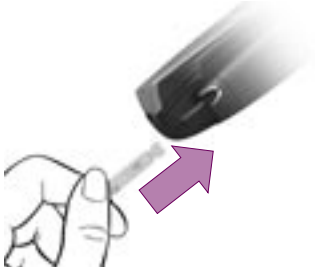
- Hold the meter so it is horizontal, with the recess for docking the lancing device pointing upwards.
- Place the flat face of the lancing device on the lower end of the recess, with the plunger facing towards the slide button.
- Slide the lancing device forward along the meter in the direction indicated by the arrow, until it locks with an audible CLICK. The guides along the inside of the recess must engage with the grooves along the lancing device.



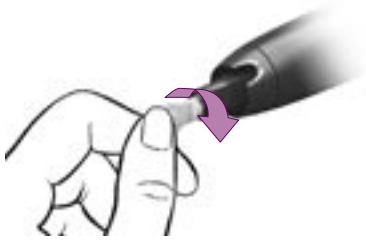
4.1.3 Inserting the lancet

- Remove the cap from the lancing device.

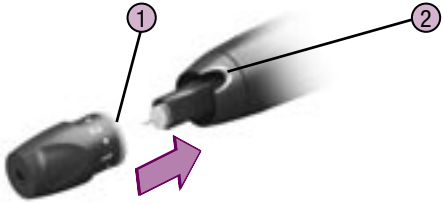
- Slide a new lancet into the lancet holder, and push it in until you hear it CLICK into place.



- Remove the protective cap from the lancet with a twisting motion.



- Press the cap back on the lancing device.
  The locating notch in the cap (1) must be directly aligned with the locating line on the lancing device (2). The cap snaps into place with an audible CLICK.



Dropping the lancing device with a lancet inserted may loosen the lancet in its holder. In that case the lancet is no longer properly lodged and cannot be used to obtain blood.

In rare cases the lancet may even protrude from the cap. This exposed lancet could cause injury. Therefore take great care not to touch the front of the cap.

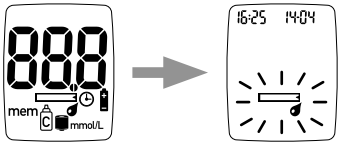
Should you drop the lancing device, please pick it up with care. Remove the cap from the lancing device. Take care to avoid the lancet so as not to injure yourself. Always eject and dispose of the lancet if the lancing device has been dropped (see Chapter 4.2.4 “Ejecting the used lancet”).

For blood collection, the cap must be on the lancing device. Without this cap, the lancing device can be neither primed nor triggered. Instead, the lancet is ejected when you press the plunger.

4.2 Testing blood glucose

► Press the Test button to turn the meter on. Shortly afterwards the meter automatically advances a test strip.

The following messages appear in turn on the display.



Standard display test

Test strip symbol and blood drop symbol flash. You may now apply blood to the test strip.

The standard display test takes about two seconds.

► Check that all the elements shown in the illustration are properly displayed on your meter.

If any of the display elements are missing, please contact your local customer support and service centre. For instance, if you can see elements other than the numerals 888 on your display (see a possible example in the illustration below). In that case, the meter will not be able to display your test results.

► Wait until the flashing test strip symbol and blood drop symbol are displayed and the meter beeps (provided the beep tone is turned on).

You now have approximately 5 minutes in which to apply blood. After this time the meter automatically turns itself off. If this happens, press the Test button to eject the test strip. The strip can no longer be used. Start the blood glucose test again with a new test strip.

⚠ Do not touch the test strip unless you are applying blood. Residues (e.g. of skin cream, food or drink) on the skin can find their way onto the strip and may produce incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

4.2.1 Obtaining blood

The best place for obtaining capillary blood is from a fingertip or an earlobe. We recommend using the side of the fingertip, as this causes the least amount of pain.

⚠ To avoid infection, use a new lancet each time you take blood. Using each lancet once only helps ensure virtually pain-free blood sampling.

You can choose the penetration depth from a possible 11 settings. The larger the number, the greater the penetration depth. Your chosen penetration depth is visible in the window.

- Rotate the Comfort Dial (cap) until you reach your chosen setting. Choose a low setting (e.g. 2) if you are using the Accu-Chek Softclix Plus lancing device for the first time.

To collect blood you first need to prime the lancing device.

- Press the plunger all the way down. The plunger returns about a third of the way. The lancing device is now primed.

Do not prime the lancing device until you are ready to collect a blood sample.
Keeping the lancing device in this primed state can cause parts to become misshapen through tension, impairing its operation.

- Wash your hands with warm water and soap, and dry well. This helps ensure proper hygiene and stimulates blood flow.
- Gently but firmly press the front end of the lancing device against the chosen puncture site. You will feel the slightly raised ring against your skin. This is the pin-hole through which the tip of the lancet emerges.

- Press in the plunger until it CLICKS. This triggers the lancet, which penetrates the skin.

- Using gentle pressure, massage the finger towards the fingertip to encourage a drop of blood to form.

The amount of blood that emerges at the puncture site depends on the penetration setting and the pressure used to hold the lancing device against the skin.

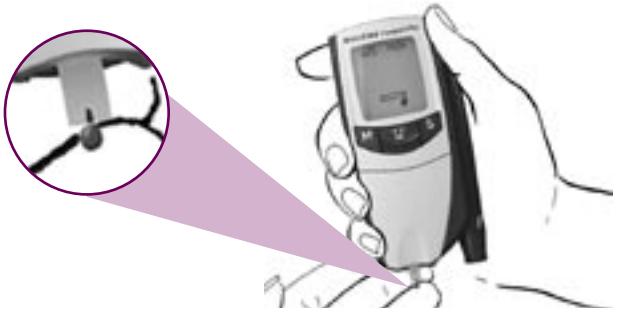
If the amount of blood you obtain is too small, try again, applying more pressure this time. If you still obtain insufficient blood, repeat the procedure with progressively deeper settings.

If too much blood emerges, reduce the penetration depth.

4.2.2 Applying blood to the test strip

- Hold the meter so the test strip is pointing downwards (see illustration).

- Touch the drop of blood, as soon as it has formed, against the tip of the test strip where the black notch is located. The strip draws up blood.

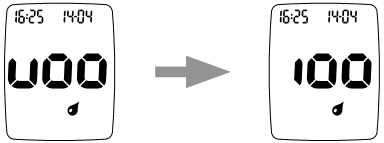


Always hold the meter so the test strip is pointing downwards when you are applying blood to the test strip. If you hold it so the test strip is pointing upwards or sideways or you put the meter down on a surface with the test strip still in it, blood can enter the meter and contaminate it.

When the test strip has drawn up sufficient blood, the meter beeps (provided the beep tone is turned on), the test strip symbol disappears and the blood drop symbol stops flashing. Measurement starts automatically and 000 appears in the display.

► Move your finger away from the test strip.

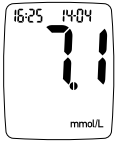
Measurement takes approximately 5 seconds. As the meter conducts the test, the three 000 disappear in turn from the display.



If the test does not start, you applied too little blood. You can then apply more blood within a specified time period (for details see the package insert that came with the test strips).

► After you have applied blood to the test strip, wipe the puncture site with a dry, clean tissue and keep it clean.

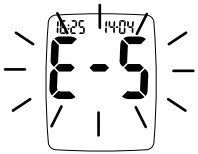
On completion of the test, the result appears in the display. The meter automatically saves the result to memory.



If you hear beep tones when the test result is displayed, the Acoustic Mode has been turned on in your meter (see page 14). You can turn off the Acoustic Mode and with it the beep tones (see Chapter 3.1 “Turning the beep tone on/off”).

Take care not to bend the test strip either before or during application of blood. Do not bend or move the test strip while the test is in progress.

If you do bend or move the strip, it may produce an incorrect result, or you may see the following error message:



- If this happens, press the Test button to turn the meter off and allow the test strip to drop out. Repeat the blood glucose test with a new test strip.

4.2.3 Ejecting the test strip

- Hold the meter over a waste bin with the test strip pointing downwards.
- Press the Test button to turn the meter off. The used test strip drops out.

If you do not turn the meter off, it turns off automatically after approximately 60 seconds. The test strip then remains in the meter.

When you turn on a meter which still has a test strip inserted, it simply ejects the strip and turns itself off again.

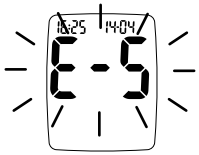
You can dispose of used test strip drums with your regular household waste.

Always let the meter eject the test strip.
If you pull out the used test strip, blood can enter the meter and contaminate it.

Do not push an ejected test strip back into the test strip drum. This includes any unused test strip that you have ejected by accident. These test strips can produce incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

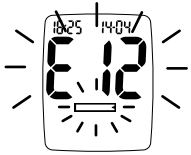
Do not pull the test strip out of the meter

- before you have applied blood. If you do, the following message is displayed:



or

- while measurement is in progress. If you do, the following message is displayed:



▶ If this happens, press the Test button to turn the meter off. Repeat the test with a new test strip.

4.2.4 Ejecting the used lancet

- Remove the cap from the lancing device.

- Hold the lancing device **upright** above a waste bin.
- Press in the plunger until it CLICKS.
  The lancet drops out.

If the lancet does not drop out:

- ▶ Keep the plunger pressed down.
- ▶ Hook the edge of the white “collar” of the Comfort Dial (cap) behind the platform of the lancet (see illustration below).
- ▶ Use the white “collar” to pull the lancet out.

A cut-out area on the inside of the lancet holder makes it easy to hook the lancet platform.

⚠ Make sure the lancet has dropped out.

Inadvertently leaving the lancet in the lancing device may result in personal injury.

ⓘ You must remove the cap to eject the lancet. If you leave the cap in place, pressing the plunger will prime the lancing device.

⚠ Carefully dispose of used lancets so they cannot cause injury.

4.2.5 Flagging special results

You can flag special results, e.g. results obtained from alternative site testing or after exercise, with an asterisk ✱.

- ▶ Wait until the flashing test strip symbol and blood drop symbol are displayed and the meter beeps (provided the beep tone is turned on).
- ▶ Press the S button.
  An asterisk appears below the flashing test strip symbol.

To remove the asterisk:

- ▶ Press the S button again.

You may also flag the result with the asterisk after the result is displayed and before you turn the meter off.

- ▶ Press the S button. The asterisk appears below the result.

To remove the asterisk:

- ▶ Press the S button twice (the first time you will see the bottle symbol for a quality control check) - see Chapter 6 “Checking your meter”.

Pressing the Test button to turn the meter off saves the result together with the asterisk.

4.3 Evaluating results

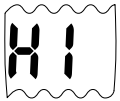
4.3.1 Plausible results

Your meter measures blood glucose within a defined range (0.6-33.3 mmol/L or 10-600 mg/dL).

Values below this range are displayed as:

The result is less than 0.6 mmol/L or 10 mg/dL.

Values above this range are displayed as:



The result is greater than 33.3 mmol/L or 600 mg/dL.

These results are not used to calculate averages (see Chapter 5.3 “Averages, highest value and lowest value for 7, 14 and 30 days”).

If the displayed test result agrees with the way you feel, follow your doctor’s advice. If the way you feel does not agree with the displayed test result, please perform a quality control check with Accu-Chek Compact Control or Accu-Chek Compact Autocontrol solution and a new test strip. Then perform another blood glucose test. If you feel the new test result still does not agree with the way you feel, please consult your doctor.

4.3.2 Implausible results – possible causes of error

If your meter repeatedly displays error messages or you doubt the test results are correct, please check the following points:

- Did you perform the test as directed (see Chapter 4.2 “Testing blood glucose”)?
- Did you wait for the flashing test strip symbol and blood drop symbol to appear before applying blood?
- Did you wash your hands with warm water and soap to improve blood flow and to remove any residues (e.g. of food, drinks, or skin cream)? Did you dry your hands well?
- Did you massage your fingertip gently (without squeezing too hard) to develop the drop of blood?
- Did you apply blood to the test strip without delay after the blood drop formed?
- Are you sure you did not bend the test strip either before or during application of blood? And are you sure you did not bend or move the test strip while the test was in progress?
- Did you perform the test within the correct temperature range (+10 °C to +40 °C)?
- Did you use a test strip drum whose 90-day use-by period has not expired (see Chapter 2.5 “Inserting or replacing the test strip drum”)?
- Did you observe the proper storage conditions for the meter and test strip drum (see Chapter 9 “Measurement and storage conditions” and the package insert that came with the test strip drum)?

If you have checked these points and still receive error messages or doubt the results are correct, please call your local customer support and service centre (see Chapter 16 “Local customer support and service”).

5 Using your meter as an electronic notebook

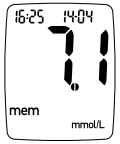
5.1 Memory

Your meter has a 300-value memory for saving results together with time and date (provided you have set the time and date). You do not need to save the results manually. The meter does it all for you. All results in memory are consecutively numbered from 1 (most recent) to a maximum of 300 (oldest). If all the memory locations are occupied, the oldest result is erased, the most recent result occupies memory location 1, and all the other results are shifted one place back in time. You cannot erase results manually.

In addition to the result, the time and the date, your meter also saves all other information that is relevant to that test. For example, results flagged as quality controls (see Chapter 6 “Checking your meter”) are displayed together with the bottle symbol. Results obtained at a temperature outside the permitted range are displayed with the thermometer symbol. Please refer to Chapter 10.1 “Symbols” for a complete list of symbols which can appear in the display.

5.2 Viewing test results

▶ With the meter turned off, press the M button. The meter turns on without advancing a test strip. The most recent result and **mem** are displayed.



Always turn the meter on with the M button if you intend to view results held in memory.

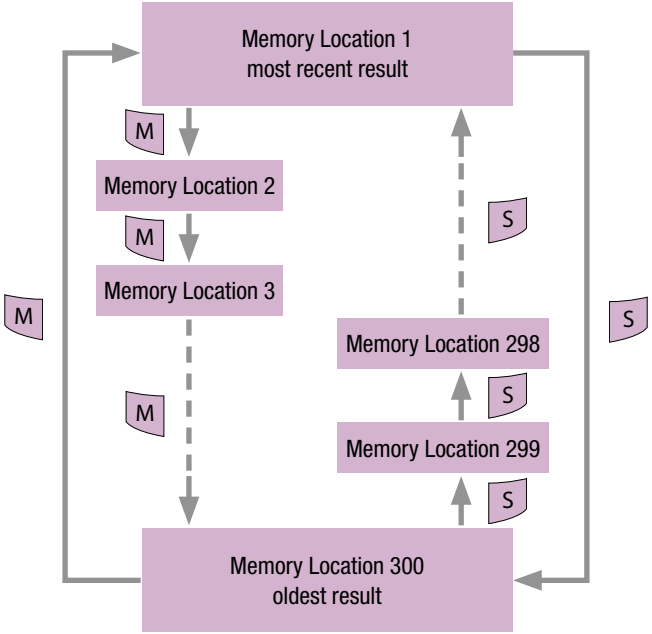
If you turn the meter on with the Test button and there is a drum in the meter, a test strip will be advanced.

▶ Press the M button to move towards the next older result saved.

If you hold down the M button, you scroll through your results more quickly towards the older results. When you reach the oldest memory location containing a result, pressing the M button again takes you to the most recent result.

► Press the S button to move towards the next most recent result saved.

If you hold down the S button, you scroll through your results more quickly towards the more recent results. When you reach the most recent result in memory, pressing the S button again takes you back to the oldest result.



► Press the Test button to turn the meter off. A test strip is not advanced.

5.3 Averages, highest value and lowest value for 7, 14 and 30 days

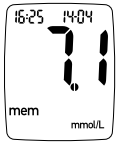
Your meter can display the average value as well as the highest value and the lowest value. You can produce these statistics for the last 7, 14 or 30 days. The current day is always included. If more than 300 test results were saved during this period, the statistics will be based on the last 300.

ⓘ If, for example, results have only been saved for the last 5 days, these results will be used to calculate the averages for 7,14 and 30 days.

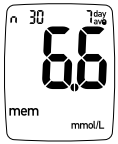
ⓘ Results flagged as quality controls as well as results shown as being LO or HI are not included in the calculations.

ⓘ The meter can only calculate these statistics as long as the results are stored together with the time and date. If you have not entered the time and date, three horizontal bars – – – are displayed instead of the numerical values.

▶ With the meter turned off, press the M button.
The meter turns on without advancing a test strip. The most recent result and **mem** are displayed.



▶ Press the S and M buttons at the same time.
The average of the results from the last 7 days is displayed.



- The number of results used in the calculation is displayed at top left (in this example: 30).
- The number of days for which the average was calculated is displayed at top right (in this example: 7).

▶ Press and hold down the M button.
As long as you hold the button down, the lowest blood glucose value you obtained in the last 7 days is displayed along with its time and date.

▶ Press and hold down the S button.
As long as you hold the button down, the highest blood glucose value you obtained in the last 7 days is displayed along with its time and date.

When you release the buttons, the display reverts to the 7-day average.

▶ Press the S and M buttons again at the same time.
The average of the results from the last 14 days is displayed.

For this period, too, you can request the meter to display the lowest and the highest values. To do this, press and hold down the M and S buttons, respectively.

- Press the S and M buttons again at the same time. The average of the results from the last 30 days is displayed.

  For this period, too, you can request the meter to display the lowest and the highest values. To do this, press and hold down the M and S buttons, respectively.
- Press the Test button to turn the meter off. A test strip is not advanced.

5.4 Downloading test results to a PC, handheld computer or printer

Your Accu-Chek Compact Plus meter has an inbuilt infrared interface permitting wireless data downloading to a suitably equipped PC, hand-held computer (PDA) or printer. All results in memory are downloaded each time.

Roche Diagnostics offers a variety of special software products (e.g. Accu-Chek Compass, Accu-Chek Pocket Compass, Accu-Chek Camit Pro and the Accu-Chek Smart Printer System) that are designed to extend the memory functions of your meter. These products enable you and your doctor to manage your data more effectively and, through their graph and table views, make it easier for you to understand your self-testing data.

If you wish to analyse your results on a PC or handheld computer, you will need a suitable software program. To download your results from the meter to the PC you will also need the Accu-Chek Infrared Cable.

For further information please contact your local customer support and service centre (see Chapter 16 “Local customer support and service”).

To analyse your results, you need to have set the year, time and date (see Chapter 3 “Settings”).

Your results remain in the meter’s memory after down-loading.

The infrared window is located at the front end of the meter.

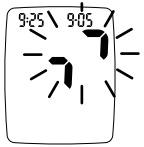
- Start the program on your PC or handheld computer, or on the Accu-Chek Smart Printer System, so it is ready to receive the data.

- Position the meter 10-20 cm away from the infrared window of the infrared cable, handheld computer or the Accu-Chek Smart Printer System. Point the two infrared windows towards one another.

- With the meter turned off, press the S and M buttons at the same time.
  The meter turns on without advancing a test strip. Two arrows appear in the display.

- Start downloading at the PC, handheld computer or the Accu-Chek Smart Printer System.

The meter automatically sends all your blood glucose test results. The two arrows flash in the display.



Once downloading has finished, the arrows stop flashing and the meter turns itself off.

If data transfer did not occur or was incomplete, the two arrows do not start flashing and, after 5 minutes, the meter turns itself off. If this happens, please refer to Chapter 10 “Symbols, display messages and troubleshooting”.

6 Checking your meter

To ensure your results are always dependable, you should periodically check the performance of your Accu-Chek Compact Plus meter.

Do this by running a quality control check using Accu-Chek Compact Control or Accu-Chek Compact Autocontrol solution:

- when you open a new pack of test strip drums,
- after you have replaced the batteries,
- after your meter has displayed the bottle symbol requesting you to perform a quality control check,
- after you have cleaned your meter,
- if your result does not agree with how you feel.

Please ask your local customer support and service representative where you can obtain Accu-Chek Compact Control or Accu-Chek Compact Autocontrol solution (see Chapter 16 “Local customer support and service”).

To perform a quality control check you need the concentration tables for the control solutions you are using. These can be found on the peel-off label attached to the drum container. When conducting the quality control test, always check that the peel-off label with the concentration tables belongs to the test strip drum that is currently in the meter.

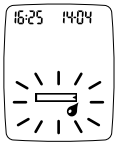
▶ Read the package insert that came with the control solutions.

▶ Press the Test button to turn the meter on.
Shortly afterwards the meter automatically advances a test strip.

▶ Check that all the elements shown in the illustration are properly displayed on your meter.

If any of the display elements are missing, please contact your local customer support and service centre. For instance, if you can see elements other than the numerals 888 on your display (see a possible example in the illustration below). In that case, the meter will not be able to display your test results.

▶ Wait until the flashing test strip symbol and blood drop symbol are displayed and the meter beeps (provided the beep tone is turned on).



You now have approximately 5 minutes in which to apply control solution. After this time, the meter automatically turns off. If this occurs, press the Test button to eject the test strip. The strip can no longer be used. Start the quality control check again with a new test strip.

- Take a bottle of control solution.
- Open it and wipe the tip of the dropper with a clean paper towel in order to remove any dried-on residues.
- Apply a drop of control solution to the surface of a clean, easily washable object made of glass, porcelain or stainless steel (e.g. a plate or spoon).

Use only control solution that has been freshly applied to the surface of the object. The control solution must not be left exposed on the surface for any length of time. If it is, the control solution may give results that are too high.

- Hold the meter so the test strip is pointing downwards (see illustration).

Always hold the meter so the test strip is pointing downwards when you are applying control solution to the test strip. Continue to hold the meter with the test strip pointing downwards until you have ejected it.

If you hold it so the test strip is pointing upwards or sideways or you put the meter down with the test strip still in it, control solution can enter the meter and contaminate it.

▶ Hold the tip of the test strip to the drop of control solution. The test strip draws up the control solution via the black notch.

When the test strip has drawn up sufficient control solution, the meter beeps (provided the beep tone is turned on), the test strip symbol disappears and the blood drop symbol stops flashing. Measurement starts automatically and 000 appears in the display.

▶ Withdraw the test strip from the control solution.

Measurement takes approximately 5 seconds. As measurement progresses, the three 000 disappear in turn from the display.

On completion of the test, the result appears in the display. The meter automatically saves the result to memory.

ⓘ If you hear beep tones when the test result is displayed, the Acoustic Mode has been turned on in your meter (see page 14). You can turn off the Acoustic Mode and with it the beep tones (see Chapter 3.1 “Turning the beep tone on/off”).

- If you are using Accu-Chek Compact **Autocontrol** solution:

  The meter automatically detects that you have applied control solution. The bottle symbol Ⓒ appears in the display when measurement starts. The bottle symbol is saved along with the result to identify it as a quality control result.

  If the bottle symbol is not displayed:

  ▶ Press the S button twice when the result is displayed. The bottle symbol appears in the display.

- If you are using Accu-Chek Compact **Control** solution:

  The meter does not automatically detect that you have applied control solution. When the result is displayed, you can flag it retrospectively as a quality control result.

▶ Press the S button twice when the result is displayed. The bottle symbol appears in the display.

To remove the bottle symbol:

▶ Press the S button once.

You can only flag the result as a quality control test as long as you have not yet turned the meter off. Once the meter has been switched off, you can no longer flag the result. You cannot change results you have retrieved from memory with the M button.

As soon as the result is displayed and you have flagged it as a quality control test (where this is necessary):

▶ Compare the result with the concentration table printed on the peel-off label attached to the drum container. Make sure you are comparing the result with the correct concentration table for your control solution.

▶ Hold the meter over a waste bin with the test strip pointing downwards.

▶ Press the Test button to turn the meter off. The used test strip drops out.

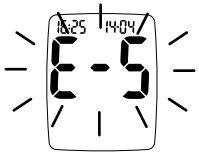
Always let the meter eject the test strip as soon as you have compared the result with the concentration table. Do not leave the meter lying around with the test strip still in and do not pull the test strip out of the meter. If you do, control solution taken up by the test strip may contaminate the meter.

▶ Wipe the tip of the dropper with a clean, dry paper towel and close the bottle tightly.

The hypo indicator cannot distinguish between blood and control solution. If you have set a hypo indicator and use control solution G1 you may see **hypo?** flashing on the display. This means that the reading for the control solution is below the blood glucose level you have set for the hypo indicator. Example: The concentration range of control solution G1 is 2.1 – 3.7 mmol/L (37-67 mg/dL) and the level set for the hypo indicator is 3.9 mmol/L (70 mg/dL).

Take care not to bend the test strip either before or during application of control solution. Do not bend or move the test strip while the test is in progress.

If you do bend or move the strip, it may produce an incorrect result, or you may see the following error message:



► If this happens, press the Test button to turn the meter off and allow the test strip to drop out. Repeat the quality control check with a new test strip.

If the result is outside the stated range, perform a second quality control check. If the result of this second test is outside the concentration range as well, please check the following points:

- Did you perform the quality control check as described above?
- Did you wait for the flashing test strip symbol and blood drop symbol to appear before applying control solution?
- Did you wipe the tip of the dropper before you applied control solution to the surface of the washable object?
- Did you compare the result with the concentration table specifically belonging to the control solution you used? Does the concentration table belong to the test strips you are using?
- Did you perform the test within the correct temperature range (+10 °C to +40 °C)?
- Did you use a test strip drum whose 90-day use-by period has not expired (see Chapter 2.5 “Inserting or replacing the test strip drum”)?
- Did you observe the proper storage conditions for the meter, the test strip drum and the control solution (see Chapter 9 “Measurement and storage conditions” and the package inserts that came with the test strip drum and control solutions)?

- Is the control solution beyond its expiry date (see label on the bottle)?
- Has the control solution been open for more than three months? Once opened, control solutions are stable for three months. They must not be used after this period.
- Did you use the correct quality control solution (Accu-Chek Compact Control or Accu-Chek Compact Autocontrol)?

If you have checked these points and the results are still outside the stated concentration range, please call your local customer support and service centre (see Chapter 16 “Local customer support and service”).

Quality control results flagged with a bottle symbol are not included in statistical calculations.

In order for the meter to recognize the Accu-Chek Compact Autocontrol solutions automatically as control solutions and to enable it to distinguish them from blood, the control solutions contain a dark dye. This is not poisonous. Avoid getting the control solution on the table or on your clothing. The dye is water-soluble. If you do happen to spill some, you can wipe or rinse the dye away immediately with warm water.

You can dispose of empty or only partly used bottles of control solution with your regular household waste.

7 Cleaning your Accu-Chek Compact Plus system

7.1 Cleaning the meter

Healthcare professionals testing blood glucose in a multi-patient setting must observe additionally the directions on cleaning and disinfection given in Chapters 8.3 and 8.4.

The meter uses an optical measuring method that relies heavily on all of its components being clean. Because of the way the test strip works, the meter does not normally come into direct contact with blood. Regular cleaning is therefore largely unnecessary. In the rare event of the meter becoming soiled through improper use, cleaning it may become necessary (see message **E-5** on page 151).

For cleaning use only cold water or 70% alcohol (ethanol). Any other cleaning agents may damage the meter or impair its measuring function.

Use a lightly moistened cloth or a lightly moistened cotton swab. Do not spray anything onto the meter and do not immerse it in water or alcohol. Doing so may damage internal parts, so affecting its operation.

If the outside of your meter or the display are dirty, wipe them with a lightly moistened cloth.

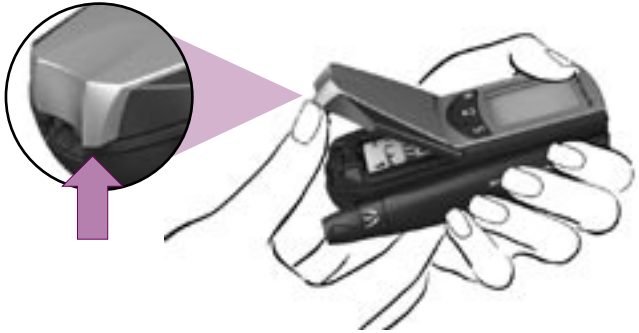
Clean the meter carefully if

- the test strip guide has become visibly soiled,
- message **E-5** is displayed (see page 151).

▶ If the meter is on, press the Test button to turn it off.

▶ Wait for the motor to stop before you open the meter.

▶ Open the drum compartment cover by lifting where it projects slightly to the right of the test strip guide.



▶ Use a lightly moistened cotton swab to wipe the small window covering the optical system and the area around it.

Make sure that no liquid enters the meter. Avoid scratching the meter, as doing so will impair its measuring function.

- Remove any fluff or lint that may remain.
- Close the drum compartment cover and push it shut.
  You will hear an audible CLICK.
- Perform a quality control check (see Chapter 6 “Checking your meter”).

Ensure that the drum compartment cover is tightly closed. If it is not properly closed, the meter will not turn on when you press the Test button.

7.2 Cleaning the lancing device

Clean your lancing device regularly to keep it in good working condition. If any blood gets on it, always wipe this away immediately. Clean the outside of the lancing device only. Wipe it once a week with a cloth lightly moistened with 70 % ethanol or 70 % isopropanol (available from your pharmacist).

In addition, thoroughly wipe the inside of the cap using a cotton bud lightly moistened with one of the two cleaning fluids.

Allow the lancing device time to dry thoroughly.

Never dip the lancing device in cleaning fluid. Doing so may damage internal parts, so affecting its operation.

Use only 70 % ethanol or 70 % isopropanol to clean the lancing device. Other cleaning agents may attack the plastic and stop the lancing device from operating properly.

8 Blood glucose testing in a multi-patient setting - Supplementary information for healthcare professionals

The use of the same Accu-Chek Compact Plus meter to perform blood glucose tests on more than one patient is restricted to trained staff working in doctors' practices, hospitals and diabetes training centres and nursing professionals in in-patient or home-care settings.

⚠ Patients and healthcare workers are potentially at risk of becoming infected when the same Accu-Chek Compact Plus meter is used to test blood glucose in several patients. Any object coming into contact with human blood is a potential source of infection (see "Clinical and Laboratory Standards Institute: Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition; CLSI document M29-A3, 2005").

⚠ **Any patient with an infection or suffering from an infectious disease and any patient who is a carrier of a multiresistant organism must be assigned his/her own meter. This applies also if a patient is suspected of being one of the above and, for as long as the suspicion exists, the meter must not be used to test any other patient.**

⚠ The test strip guide and measuring window must always be kept clean. When you turn the meter on to perform a test, the test strip is advanced over the measuring window and out through the test strip guide. Any residues of blood remaining on the measuring window or in the test strip guide may get onto the test strip and contaminate it.

ⓘ The hypo indicator level may vary from person to person. Therefore we recommend leaving the hypo indicator turned off when using the meter in a professional setting.

When using the meter always follow the recognized procedures for handling objects that have the potential for being contaminated with human material. Observe the health and safety policy of your laboratory or institution.

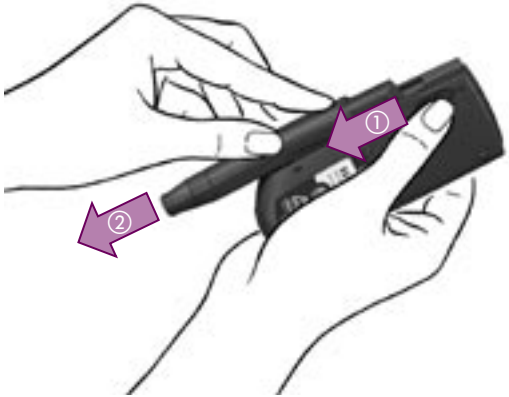
To stop your meter becoming contaminated, please observe additionally the directions given in the next few pages.

8.1 Replacing the lancing device with a blanking plate

The Accu-Chek Softclix Plus lancing device is intended for patient self-monitoring by a single person.
It must not be used to collect blood in a multi-patient setting as it does not incorporate any features to guard against cross-infection.

Therefore, undock the lancing device from the meter.

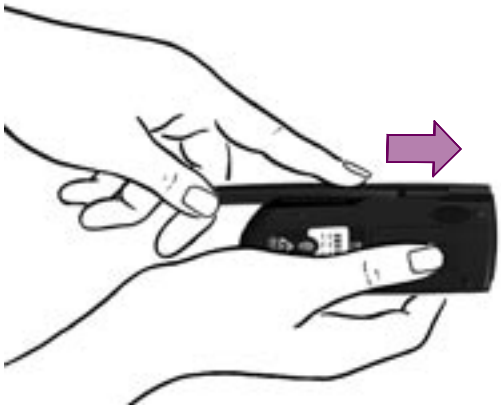
- Hold the meter so its reverse side is facing upwards.
- Push the slide button in the direction indicated by the arrow (1) and hold it there.
- Slide the lancing device out in the direction indicated by the arrow (2).



Instead of the lancing device you can use a blanking plate which is available from your local customer support centre.

- Hold the meter so it is horizontal, with the recess for docking the lancing device pointing upwards.
- Slide the blanking plate over the recess from the left along the meter in the direction indicated by the arrow.

  The guides along the inside of the recess must engage with the grooves along the blanking plate. The blanking plate is properly attached when it locks into place with an audible CLICK.



8.2 Testing blood glucose

- ▶ Wear protective gloves.
- ▶ Wash or disinfect the patient's finger and allow it to dry thoroughly. The drop of blood cannot spread so easily over dry skin.

⚠ Residues of water or disinfectant on the skin can dilute the drop of blood and so produce false results.

ⓘ The test strip cannot properly draw up blood that has spread over the skin.

- ▶ Use a lancing device that is approved for use by healthcare professionals.
- ▶ Use a lancing device with adjustable penetration depth settings.
- ▶ Select a penetration depth to suit the nature of the patient's skin. Start with a shallow depth setting.

⚠ To test blood glucose you require approximately 1.5 µL of blood. Avoid producing large drops of blood on the patient's finger, as these may come into contact with the meter.

Wipe off any large drops of blood and test using the drop of blood that forms again at the puncture site.

Select a puncture site along the side of a fingertip.

- ▶ Turn the finger so the chosen puncture site is facing upwards, and keep it facing upwards. The drop of blood cannot then spread so easily.
- ▶ Lance the side of the fingertip.
- ▶ Using gentle pressure, massage the finger towards the fingertip to encourage a drop of blood to form. A proper drop of blood must form.

ⓘ If you collect blood from an earlobe, be sure that the blood is on top and not hanging from the earlobe. Hold the earlobe or position the patient so the puncture site is on top.

- Touch the tip of the test strip against the drop of blood. The test strip draws up the blood through the black notch.

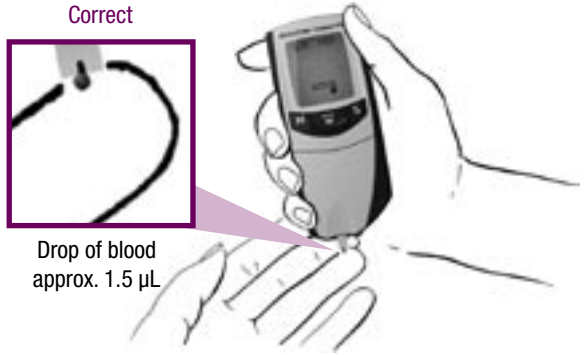
⚠ While the test strip is drawing up blood, **always** hold the meter **so the test strip is pointing downwards**. If you hold it so the test strip is pointing upwards or sideways or if you lay the meter down with the test strip still inside, blood can enter the meter and contaminate it.

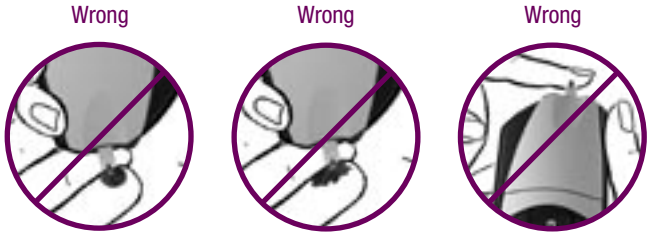
Hold the meter with the test strip pointing downwards until the result is displayed (measuring time approx. 5 seconds) and you have ejected the test strip.

- Stop touching the blood drop with the test strip as soon as 000 appears in the display and the meter beeps (provided the beep tone is turned on). This indicates that the test strip has drawn up enough blood and the test starts.
- When the result is displayed, hold the meter upright over a waste bin and press the Test button to turn it off. The used test strip drops out.

⚠ Always let the meter eject the test strip. **Do not pull the test strip out.** If you do pull the used test strip out, blood may enter the meter and contaminate it.

⚠ Dispose of used lancets, test strips or disposable lancing devices according to the health and safety policy of your laboratory or institution.





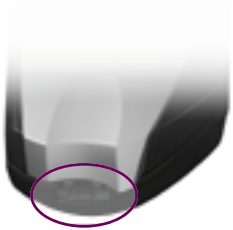
8.3 Disinfecting the meter

The Accu-Chek Compact Plus meter may be disinfected. Disinfection is performed according to the degree of soiling (see “When to disinfect”).

What to disinfect

The following parts of the meter may become contaminated:

- the area around the test strip guide



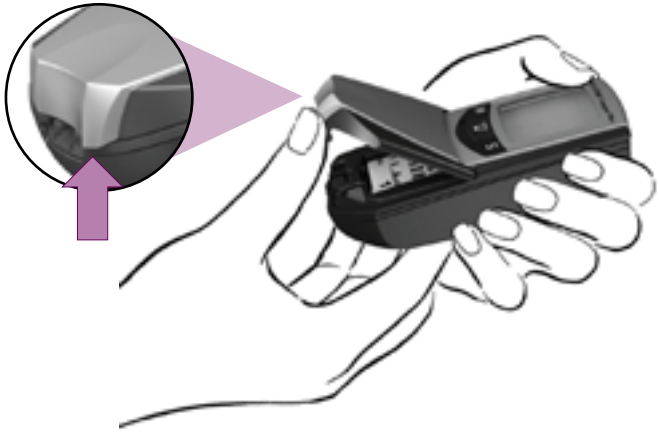
- the lower edge of the drum compartment cover
- the measuring window
- the casing

The test strip guide and measuring window must always be kept clean. When you turn the meter on to perform a test, the test strip is advanced over the measuring window and out through the test strip guide. Any residues of blood remaining on the measuring window or in the test strip guide may get onto the test strip and contaminate it.

In order to disinfect the lower edge of the drum compartment cover and measuring window, you need to open the drum compartment cover.

First make sure the meter is turned off.

► Open the drum compartment cover by lifting where it projects slightly to the right of the test strip guide.



Once you have opened the drum compartment cover, you will see beneath it the small measuring window (1) and have access to the lower edge of the drum compartment cover (2).

Cotton buds, wipes and cloths moistened with disinfectant are all suitable for disinfecting the meter.

Make sure that no liquid enters the meter. Avoid scratching the measuring window as scratches could impair its measuring function.

Do not spray anything onto the meter and do not immerse it in liquid. Doing so may damage the meter's internal components and stop it from working properly.

- ▶ Allow areas you have wiped time to dry thoroughly.
- ▶ Remove any fluff or lint that may remain.
- ▶ Fold the drum compartment cover down and press until it closes. It locks with an audible CLICK.
- ▶ Ensure that the drum compartment cover is properly closed.

When to disinfect

Each time after you have tested a patient's blood glucose:

- Wipe the area around the test strip guide.

  If you find blood on the cloth, also wipe the test strip guide itself and the measuring window.

If there is blood on the meter:

- Wipe the meter.

If blood has entered the meter:

- Wipe the area around the test strip guide, the lower edge of the drum compartment cover and the measuring window.

- Allow areas you have wiped time to dry thoroughly.

The meter, test strip guide and measuring window must be thoroughly cleaned and disinfected at least once a day after use. Carefully check all recesses, grooves and gaps, as well as the blanking plate.

8.4 Suitable disinfectants

Use only disinfectants of proven effectiveness quoted in official guidelines (e.g. Clinical and Laboratory Standards Institute: Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition; CLSI document M29-A3, 2005).

Use alcohol-based surface disinfectants with virucidal activity. Suitable agents are those, for instance, based on alcohols, aldehyde cleavers and quaternary compounds*. Use them according to manufacturer's instructions.

* List of disinfection methods that have been tested in accordance with the "Richtlinien für die Prüfung chemischer Desinfektionsmittel" [Guidelines for testing chemical disinfectants] and the "Anforderungskatalog" [Requirements catalogue] of the DGHM (Deutsche Gesellschaft für Hygiene und Mikrobiologie e.V.) [= German Society for Hygiene and Microbiology, Registered Society] based on the DGHM standard methods for testing chemical disinfection methods, and have been found to be efficacious by the Desinfektionsmittel-Kommission [= Disinfectants Commission] of the DGHM in collaboration with representatives of the following professional associations: DGKH (Deutsche Gesellschaft für Krankenhaushygiene e.V.) [= German Society for Hospital Hygiene, Registered Society], GHU (Gesellschaft für Hygiene und Umweltmedizin e.V.) [= German Society for Hygiene and Environmental Medicine, Registered Society], DVV (Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten e.V.) [= German Association for the Control of Virus Diseases, Registered Society] and DVG (Deutsche Veterinärmedizinische Gesellschaft e.V.) [= German Veterinary Society, Registered Society]

9 Measurement and storage conditions

The reliability of your meter and lancing device as well as the accuracy of your results may be influenced by a number of factors. Please pay close attention to the following points.

9.1 Temperature range

- **Without batteries and test strip drum** the meter may be stored between -25 °C and +70 °C.
- **With batteries but without the test strip drum** the meter may be stored between -10 °C and +50 °C.

At temperatures above +50 °C the batteries could leak and damage the meter.

At temperatures below -10 °C the batteries do not have enough power to keep the internal clock functioning.

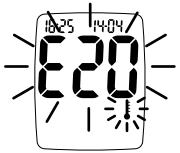
- **With batteries and test strip drum** the meter may be stored between +2 °C and +30 °C.
- For performing blood glucose tests the permitted range is from +10 °C to +40 °C.

- A test can be performed at the limits of the permitted range (between +6 °C and +10 °C or between +40 °C and +44 °C). In this case the thermometer symbol is displayed.

Do not use results obtained at the limits of the permitted temperature range as a basis for making therapeutic decisions, as they could be incorrect. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

- Tests cannot be performed at temperatures below +6 °C and above +44 °C.

  The following message is displayed:



- At temperatures below 0 °C it is impossible to turn the meter on.
- Keep the lancing device at temperatures between -25 °C and +70 °C.

Never expose the lancing device to high temperatures (e.g. in a hot car). High temperatures can cause parts of the lancing device to become warped, so impairing its operation.

When you aren't using the lancing device, keep it without a lancet inserted.

Never try to speed up warming or cooling of your meter, e.g. by placing it on a radiator or in a refrigerator. Doing so can damage the meter and cause it to give incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.

9.2 Atmospheric humidity

When you test blood glucose the relative humidity should be between 20 % and 85 %.

Keep the meter and lancing device at between 20 % and 85 % relative humidity.

Sudden changes in temperature can cause condensation to form in or on the meter. If this happens, do not turn the meter on. Make sure that it returns to room temperature slowly. Never keep it in a room that is likely to harbour condensation (e.g. a bathroom).

9.3 Sources of interference

Strong electromagnetic fields may interfere with the proper operation of the meter. Do not use the meter close to sources of strong electromagnetic radiation.

To avoid electrostatic discharge, do not use the meter in a very dry environment, especially one in which synthetic materials are present.

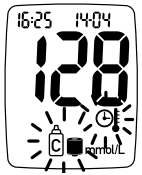
Keep the meter away from very strong light sources (e.g. direct sunlight, studio lighting, spot lights, etc.). These may interfere with the proper functioning of the meter and cause error messages to be displayed.

10 Symbols, display messages and troubleshooting

In addition to test results, the time and the date, your meter also displays other symbols and error messages. Some of these routine display messages have already been explained in earlier chapters. Following is a complete summary of all symbols and messages, what they mean and what actions you should take when they appear.

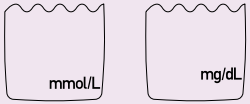
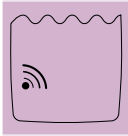
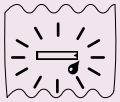
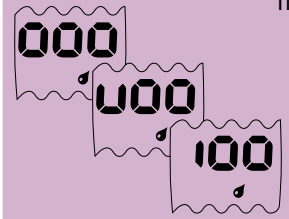
When you use the meter, pay close attention to all symbols and messages. Every symbol and every message provides you with important information. Therefore, if you do not know what a symbol means or do not understand a message, please refer to this chapter to find the explanation. Otherwise you run the risk of wrongly interpreting your results.

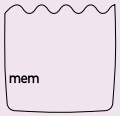
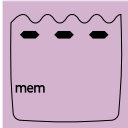
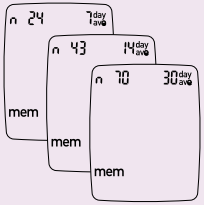
Several symbols may appear at the same time. For example, a combination such as test result, time and date with flashing thermometer, drum, clock and bottle symbols may be displayed. This means that the temperature during measurement was at the limit of the permitted range and that the 90-day use-by period for the test strip drum has expired.

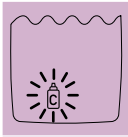
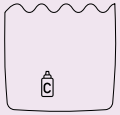
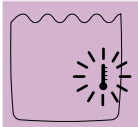


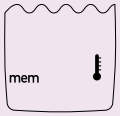
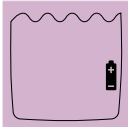
10.1 Symbols

When elements in the display are surrounded by a halo, it indicates that they are flashing in the meter's display.

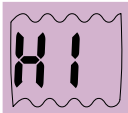
Symbol...	Meaning:
	This is the unit in which your blood glucose results are displayed.
	The beep tone (On 1) or Acoustic Mode (On 2) is turned on.
	You may apply blood or control solution to the test strip now.
	The test is in progress.

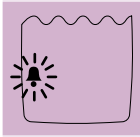
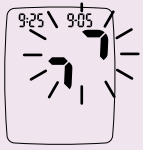
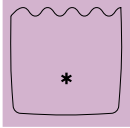
Symbol...	Meaning:
	**mem** signifies that the result being displayed is a result from memory.
	• No results have been saved. • The meter cannot calculate the average of the last 7, 14 or 30 days, ■ as memory only contains results that are not used in the calculation, e.g. quality control results, ■ as you have not entered the date and time, ■ as you have set the date to a time in the past.
	The average blood glucose result for the last 7, 14 or 30 days is displayed. It was calculated using (for example) 24, 43 and 70 blood glucose results, respectively.

Symbol...	Meaning:
	You are requested to run a quality control test.
	This result is/was a quality control result.
	The temperature during testing was at the limit of the permitted range (between +6 °C and +10 °C or between +40 °C and +44 °C). Do not use the result as a basis for therapeutic decisions. ▶ Turn the meter off. Let the meter warm up or cool down slowly. Turn the meter on again and repeat the test. During testing the permitted temperature range is from +10 °C to +40 °C.

Symbol...	Meaning:
	When this result was saved, the temperature was at the limit of the permitted range. Do not use the result as a basis for therapeutic decisions.
	The batteries are running low. When the battery symbol first appears in the display, you can perform about 50 more tests. Continue testing until all the test strips in the test strip drum have been used. Then replace the batteries and the test strip drum. If you use NiMH rechargeable batteries instead of normal batteries, fewer than 50 more tests can be performed. If the rechargeable batteries are old and exhausted, it may not be possible to perform even one more test. When the batteries are so low that no more tests can be performed, the battery symbol appears briefly for 3 seconds in the display. Then the meter turns off. Insert two batteries (new or recharged).

Symbol...	Meaning:
	The blood glucose result is below the measuring range, i.e. it is less than 0.6 mmol/L (or 10 mg/dL). If the displayed test result agrees with the way you feel, follow your doctor's advice. If the test result does not agree with the way you feel, please perform a quality control check with Accu-Chek Compact Control or Accu-Chek Compact Autocontrol solution and a new test strip. Then perform another blood glucose test. If the new test result still does not agree with the way you feel, please contact your doctor.

Symbol...	Meaning:
	The blood glucose result is above the measuring range, i.e. it is greater than 33.3 mmol/L (or 600 mg/dL). If the test result agrees with the way you feel, follow your doctor's advice. If the test result does not agree with the way you feel, please perform a quality control check with Accu-Chek Compact Control or Accu-Chek Compact Autocontrol solution and a new test strip. Then perform another blood glucose test. If the new test result still does not agree with the way you feel, please contact your doctor.

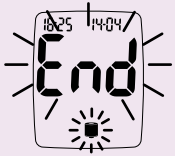
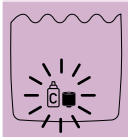
Symbol...	Meaning:
	You have turned on the hypo indicator and the displayed result is below the level you set.
	You have turned on the alarm clock function. The bell symbol flashes in the display at the same time as the meter beeps.
	The meter is downloading results to a computer.
	This result has been flagged as a special result.

10.2 Display messages and troubleshooting

When elements in the display are surrounded by a halo, it indicates that they are flashing in the meter's display.
If you receive frequent error messages, please contact your local customer support and service centre (see Chapter 16 "Local customer support and service").

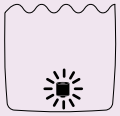
If this happens …	it means:
The meter will not turn on.	• The batteries (normal or rechargeable) are empty. Insert batteries (new or recharged). • You inserted the batteries the wrong way round. Remove the batteries and place them in the battery compartment as instructed. If the batteries were left the wrong way round in the meter for more than two minutes, the meter forgets the year, date and time. Re-enter them (see Chapters 3 "Settings"). ▸▸
▸▸	• The surrounding temperature is below 0 °C. Change location. The temperature must be between +10 °C and +40 °C. Allow the meter to warm up slowly. • Condensation has affected the electronics. Let the meter dry slowly. • The meter is defective. Please contact your local customer support and service centre (see Chapter 16 "Local customer support and service").
The meter is turned on, but the display is blank.	The display is defective. Please contact your local customer support and service centre (see Chapter 16 "Local customer support and service").

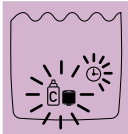
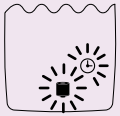
If this happens …	it means:
The clock has stopped or the clock is slow.	• The meter was exposed to a temperature below –10 °C and the batteries are beginning to freeze. Turn the meter off. Let it warm up slowly. Always keep the meter and batteries at temperatures between -10 °C and +50 °C (with test strip drum: between +2 °C and +30 °C).
When the meter is turned on, the clock shows 0:00 or 12.00 a.m.	• The meter was exposed to a temperature below -10 °C and the batteries are beginning to freeze. Turn the meter off. Let it warm up slowly. Always keep the meter and batteries at temperatures between -10 °C and +50 °C (with test strip drum: between +2 °C and +30 °C). • The time has not been set. Set the time as described in Chapter 3.4 “Setting the time”.

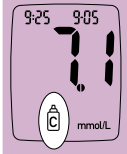
This message/symbol appears…	and means:
	The test strip drum in the meter is empty. Insert a new test strip drum.
	• You inserted a partly used test strip drum. • You opened the drum compartment. • You took longer than two minutes to replace the batteries (the year, date and time settings are lost) and a partly used drum remained in the meter. • You adopted the bar code from the preceding drum, as the bar code on the drum that is inserted is damaged (see error message **E-2**).

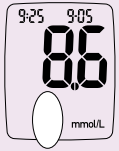
▶▶

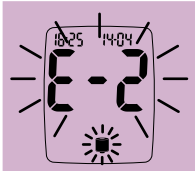
This message/symbol appears…	and means:
▶▶	You are requested to perform a quality control check in order to check the test strips. The meter has no way of telling when the drum was first inserted or how long the partly used drum has already been in the meter. Perform a quality control check (see Chapter 6, “Checking your meter”). If the measurement produces a correct result, you may continue to use the test strips. If the result is incorrect, you need to insert a new drum. Following the quality control check, the bottle symbol disappears from the display. The drum symbol continues to flash in order to draw attention to the fact that the meter cannot calculate the use-by period. The symbol only disappears when you insert a new drum. All results are saved along with a flashing drum symbol. If you do not perform a quality control check, the flashing bottle symbol appears with every test until you insert a new drum.

This message/symbol appears…	and means:
	• You inserted a partly used test strip drum. • You opened the drum compartment. • You took longer than two minutes to replace the batteries (the year, date and time settings are lost) and a partly used drum remained in the meter. • You adopted the bar code from the preceding drum, as the bar code on the drum that is inserted is damaged (see error message **E-2**) The meter cannot calculate the use-by period for this test strip drum. You performed the requested quality control check (see explanation for the preceding display).

This message/symbol appears…	and means:
	The 90-day use-by period for the test strip drum has expired. The test strips cannot be used. ⚠ You must not use these test strips, as they may produce incorrect results. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects. ▶ Insert a new test strip drum.
	• The 90-day use-by period for the test strip drum has expired and you have performed a quality control check (see explanation for the preceding display). • In the case of saved results: The test strips you used for this test were unusable (in the meter for more than 90 days). ▶▶

This message/symbol appears…	and means:
▶▶	⚠ The results in memory may be incorrect. Incorrect results can cause the wrong therapeutic decision to be taken and so produce adverse health effects.
Although you performed a blood glucose test, the bottle symbol is displayed. 	An assignment error has occurred. The result is correct, but has been saved as a quality control test. ▶ Press the S button once so that the bottle symbol is no longer displayed. If the meter has already been switched off, you can no longer make the correction. You cannot change results you have retrieved from memory with the M button.

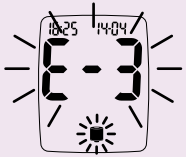
This message/symbol appears…	and means:
Although you performed a quality control check, the bottle symbol is not displayed.  	An assignment error has occurred. The result is correct, but has been saved as a blood glucose result. ▶ Press the S button twice so that the bottle symbol is displayed. If the meter has already been switched off, you can no longer make the correction. You cannot change results you have retrieved from memory with the M button.

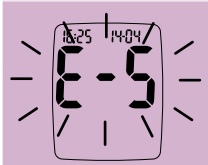
This message/symbol appears…	and means:
 	• The bar code information from the test strip drum has been lost. • Press the Test button to turn the meter off. Open and close the drum compartment. The meter then rotates the drum and reads the bar code. The drum symbol and the bottle symbol flash in the display when the next test is performed. Perform a quality control check. You may use up all the test strips remaining in the drum. The 90-day use-by period will no longer be properly calculated for this drum. The drum symbol continues to flash in the display until you have inserted a new drum.

▶▶

This message/symbol appears…	and means:
▶▶	• The bar code on the test strip drum is damaged. ▶ If you inserted the first drum from a pack, remove the drum from the meter and return it to its container. Insert the second drum from the same pack in the meter and use all 17 test strips. When it is time to replace the drum, insert the first drum with the damaged bar code. When the error message is displayed again, press the S button. The meter uses the bar code from the preceding drum. The drum and bottle symbols flash in the display. The meter requests you to perform a quality control check. You may use all 17 test strips for testing. The drum symbol continues to flash in the display until you have inserted a new drum. ▶▶

This message/symbol appears…	and means:
▶▶	▶ If you inserted the second or third drum from a pack, press the S button. The meter uses the bar code from the preceding drum. The drum and bottle symbols flash in the display. The meter requests you to perform a quality control check. You may use all 17 test strips for testing. The drum symbol continues to flash in the display until you have inserted a new drum. ▶ If you inserted a test strip drum from single-drum pack, you can no longer use this drum. Insert a new drum. ▶▶

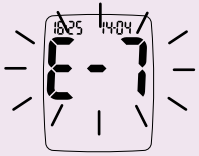
This message/symbol appears…	and means:
▶▶	⚠ All test strip drums from the same pack have a bar code that is valid for this pack only. Do not code the meter with test strip drums from other packs. If the test strips and bar code do not belong together, inaccurate blood glucose results may be obtained. Test strip drums from the same pack have the same lot number. Compare the lot numbers. These are printed on the label of the test strip next to the LOT symbol.
	• The test strip drum does not rotate. ▶ Press the Test button to turn the meter off. Open the drum compartment and press the red drum release button. Close the drum compartment again. ▶▶

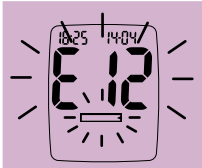
This message/symbol appears…	and means:
▶▶	The meter then rotates the drum and reads the bar code. The drum symbol and bottle symbol then flash in the display. The 90-day use-by period will no longer be properly calculated for this drum. Perform a quality control check. You may use up all the test strips remaining in the drum. The drum symbol continues to flash in the display until you have inserted a new drum. • The bar code on the test strip drum is damaged. To troubleshoot, see error message **E-2**.
	• The small window covering the optical system is dirty. ▶ Clean the window (see Chapter 7.1 “Cleaning the meter”) and repeat the test with a new test strip. ▶▶

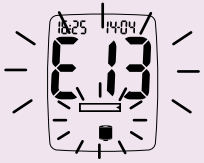
This message/symbol appears…	and means:
▶▶	• You applied blood or control solution too soon. ▶ Press the Test button to turn the meter off and then on again. Repeat the test with a new test strip. Wait until the test strip symbol and blood drop symbol flash in the display and the meter beeps (provided the beep tone is turned on). Now (and no earlier than this) apply blood or control solution to the test strip. • You applied too little blood or control solution. ▶ Turn the meter off and on again. Repeat the test with a new test strip and a larger amount of blood or control solution. ▶▶

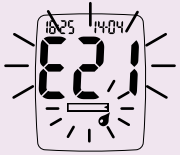
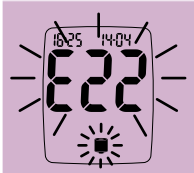
This message/symbol appears…	and means:
▶▶	• You moved or bent the test strip while applying blood or control solution, or during measurement. ▶ Turn the meter off and on again. Repeat the test with a new test strip. • You turned the meter off and on again. The old test strip is still in the meter. ▶ Hold the meter upright so the test strip is pointing downwards. Press the Test button to turn the meter off and allow the test strip to drop out. If the test strip does not drop out, remove it manually, even if you feel some resistance. ▶▶

This message/symbol appears…	and means:
▶▶	• You pulled the test strip out of the meter before applying blood or control solution to the strip. ▶ Press the Test button to turn the meter off and then on again. Repeat the test with a new test strip. Always remove the test strip by pressing the Test button to turn the meter off. • The test strip that was advanced is defective. ▶ Hold the meter upright so the test strip is pointing downwards. Press the Test button to turn the meter off and allow the test strip to drop out. Press the Test button to turn the meter on again and repeat the test. ▶▶

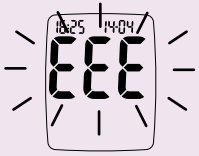
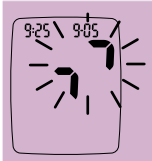
This message/symbol appears…	and means:
▶▶	• There is condensation in the meter. ▶ Press the Test button to turn the meter off. Leave it to dry at room temperature.
	• The batteries are empty or a meter error has occurred. ▶ Press the Test button to turn the meter off and then on again. If the error message appears again, the batteries may be empty. Insert new batteries. If you see the error message again when you next turn the meter on, please contact your local customer support and service centre (see Chapter 16 “Local customer support and service”).

This message/symbol appears…	and means:
	• You pulled the test strip out of the meter during testing. ▶ Press the Test button to turn the meter off and then on again. Repeat the test with a new test strip. Always remove the test strip by pressing the Test button to turn the meter off.

This message/symbol appears…	and means:
	• The test strip is stuck. • The test strip drum does not rotate. ▶ Press the Test button to turn the meter off. Open the drum compartment and, if necessary, pull out the test strip. Press the red drum release button and remove the test strip drum. Insert the test strip drum and close the drum compartment. The meter then rotates the drum and reads the bar code. The drum symbol and bottle symbol then flash in the display. The 90-day use-by period will no longer be properly calculated for this drum. Perform a quality control check. You may use up all the test strips remaining in the drum. The drum symbol continues to flash in the display until you have inserted a new drum.

This message/symbol appears…	and means:
	• The meter has been exposed to severe differences in temperature. • The temperature is too low (between 0 °C and +6 °C) or too high (above +44 °C) to perform a test. ▶ Press the Test button to turn the meter off. Let it cool down or warm up slowly. During testing the permitted temperature range is from +10 °C to +40 °C.
	• You applied too little blood or control solution. ▶ Turn the meter off and on again. Repeat the test with a new test strip and a larger amount of blood or control solution.
	• There is no test strip drum in the meter. ▶ Press the Test button to turn the meter off. Insert a new test strip drum. ▶▶

This message/symbol appears…	and means:
▶▶	• The mock drum (empty drum without test strips or a label) is still in the meter. ▶ Press the Test button to turn the meter off. Insert an Accu-Chek Compact test strip drum. • You inserted a test strip drum from a different blood glucose monitoring system. ▶ Press the Test button to turn the meter off. Insert an Accu-Chek Compact test strip drum. • The bar code on the test strip drum is damaged. To troubleshoot, see error message **E-3**.

This message/symbol appears…	and means:
	A meter error has occurred. ▶ Press the Test button to turn the meter off and then on again. If the error message persists, please contact your local customer support and service centre (see Chapter 16 “Local customer support and service”).
	During a data download both arrows fail to start flashing. The meter turns itself off after 5 minutes and the PC, handheld computer or the Accu-Chek Smart Printer System also displays an error message. • A download error occurred. ▶ Start the download again. • A strong light source is too close to the two infrared windows. ▶ Move away from the light source and start the download again. ▶▶

This message/symbol appears…	and means:
▶▶	• The infrared windows are too far apart or not properly facing one another. ▶ Reduce the distance between the two infrared windows to 10-20 cm and position them so they are facing one another. Start the download again. • A software error occurred on the PC, handheld computer or the Accu-Chek Smart Printer System. ▶ Read the manual for the software or the Accu-Chek Smart Printer System.

11 Technical data

Meter type	Accu-Chek Compact Plus
Catalogue No./Serial No.	See type plate on back of meter
Test principle	Determination of glucose in fresh capillary blood by reflectance photometry. When using different specimen material please refer to the package insert that came with the Accu-Chek Compact test strips. Blood glucose concentrations may be measured in whole blood or in plasma. Although you always apply whole blood to your test strip, your meter will show results that are equivalent either to whole blood or to plasma concentrations. If you want to know whether your meter displays your blood glucose results in terms of concentrations in whole blood or in plasma, please refer to the package insert for your test strips. It also contains information on how the system works, on the test principle and on reference methods.
Measuring range	0.6–33.3 mmol/L (10–600 mg/dL)
Sample size	approx. 1.5 µL (1 microlitre = 1 thousandths of a millilitre)

Measuring time	approx. 5 seconds (depending on concentration)
System operating temperature	+10 °C to +40 °C
Storage temperature	
Meter	without batteries and without test strip drum: -25 °C to +70 °C with batteries but without test strip drum: -10 °C to +50 °C with batteries and with test strip drum: +2 °C to +30 °C
Lancing device	-25 °C to +70 °C
Atmospheric humidity	20 % - 85 % relative humidity
Memory capacity	300 results together with time and date, averages, highest and lowest value for periods of 7, 14 and 30 days
Dimensions	113 x 49 x 30 mm without lancing device 115 x 56 x 30 mm with lancing device
Weight	approx. 130 g with batteries, test strip drum and lancing device
Display window	liquid crystal display (LCD) with symbols
Automatic power-off	after 60 seconds / after 5 minutes depending on operating condition

Power supply	2 batteries (type AAA, LR 03, AM 4 or Micro) or 2 NiMH rechargeable batteries (type AAA)
Battery life	approx. 1000 results (fewer in Acoustic Mode, owing to higher battery load, or when rechargeable batteries are used)
Interface	Infrared window
Safety class	III
LED/IRED	Class 1
Electromagnetic compatibility	This device meets the electromagnetic immunity requirements according to EN ISO 15197 Annex A. The chosen basis for the immunity tests (on electrostatic discharge) was basic standard IEC 61000-4-2. In addition it meets the electromagnetic emissions requirements according to EN 61326. Its electromagnetic emission is thus low. Interference from other electrically driven equipment is not to be anticipated.

Performance evaluation	The performance data for the Accu-Chek Compact Plus system (Accu-Chek Compact Plus meter together with Accu-Chek Compact test strips) were determined using capillary blood from diabetic patients (method comparison, accuracy), venous blood (repeatability) and control solutions (reproducibility). The method comparison was conducted by comparing the results from the system with those of the hexokinase method with deproteination using an automatic analyzer. The hexokinase method is traceable to an NIST standard (traceability).

The Accu-Chek Compact Plus system complies with the requirements of EN ISO 15197.

12 Disposing of your meter

During blood glucose testing the meter itself may come into contact with blood. Used meters therefore carry a risk of infection. Please dispose of your used meter - after removing the battery - according to the regulations applicable in your country. For information about correct disposal please contact your local council.

The meter does not fall within the scope of European Directive 2002/96/EC (WEEE – Waste electrical and electronic equipment).

13 System components

Use only Accu-Chek Compact test strips for testing with the Accu-Chek Compact Plus meter. These are available from your pharmacist.

Only Accu-Chek Compact Control and Accu-Chek Compact Autocontrol solutions may be used for quality control checking of your Accu-Chek Compact Plus meter and Accu-Chek Compact test strips (see Chapter 6).

Only use Accu-Chek Softclix lancets in your Accu-Chek Softclix Plus lancing device. These are available in various pack sizes.

If you wish to remove the lancing device permanently from the meter, it is possible to insert a blanking plate where the lancing device would normally be. You can order this blanking plate from your local customer support and service centre.

If you wish to test blood from alternative sites, you can order a special AST cap for your Accu-Chek Softclix Plus lancing device from your local customer support and service centre.

14 Guarantee

The statutory provisions on rights in consumer goods sales in the country of purchase shall apply.

15 Patents

Accu-Chek Compact Plus meter

EP 732 590; EP 738 666; EP 742 436; EP 1 189 064; US 5,463,467; US 5,720,924; US 5,863,800; US 6,707,554; US 6,475,436; WO 2004/003549

Accu-Chek Softclix Plus lancing device

US 4,924,879, US-2004-0092996; US 2005-00908580; US Re. 35,803

Notice regarding patents:
Roche has been granted patent protection in the USA for its Accu-Chek Softclix Plus lancing device and its use in combination with Accu-Chek Softclix and Accu-Chek Softclix XS lancets (US Patents 4,924,879 and Re. 35,803). Similar patent protection also exists in other countries, especially through European Patents 0565970, 0782838 and Japanese Patent 2702374. Your purchase entitles you to use your Accu-Chek Softclix lancing device in combination with Accu-Chek Softclix and Accu-Chek Softclix XL lancets. As required by statute, Roche will refrain from pursuing its patent rights against private persons using Accu-Chek Softclix lancing devices in combination with lancets from another manufacturer for non-commercial purposes. Acquisition of Accu-Chek Softclix lancing devices is not associated, other than through the aforementioned statutory limitation on the effect of the patent, with any entitlement and in particular with any tacit permission for the acquirer to use any other lancets. Roche reserves the right to assert its patent rights against any manufacturer offering lancets for Accu-Chek Softclix lancing devices.

16 Local customer support and service

16.1 Information and repairs

Information service
If you have any questions on how to use your Accu-Chek Compact Plus meter or Accu-Chek Softclix Plus lancing device, if any of the results you obtain seem implausible, or if you suspect that the meter or lancing device may have a fault, please contact your local customer support and service centre. Refer to Chapter 16.2 “Contact us” for details.

Repair service
Please note that any repair, adjustment or other change to the meter or lancing device must only be performed by qualified persons who have been authorized by Roche Diagnostics. If you suspect that the meter or lancing device may have a fault, please start by contacting your local Roche Diagnostics customer support representative. Our staff will attempt to identify and solve the problem with you over the phone.

16.2 Contact us

Korea
Roche Diagnostics Korea Co. Ltd.
15th floor, Sam-Wha-Building, 144/17,
Samsung-dong, Kangnam-ku
135-092 Seoul
Toll-Free Line: 080-909-2222

Hong Kong
Roche Diagnostics (Hong Kong) Ltd.
Rm 1316-1325 Metroplaza Tower I
223 Hing Fong Road
Kwai Chung
Hong Kong (China)
Diabetes Hotline: 852 2485 7512 (office hours)
www.accu-chek.com.hk

Singapore
Roche Diagnostics Asia Pacific Pte. Ltd
298, Tiong Bahru Road
16-01-06 Central Plaza
Singapore 168730

Taiwan
Roche Diagnostics Ltd.
11F, No. 35 Sec. 3 Min Quan East Road, 104 Taipei
Toll-Free Line: 0800-060-333

17 Alphabetical index

A

Acoustic Mode 14, 21, 22, 55
Alarm clock function 13
    setting 49
Alternative site testing 82, 167
Asterisk symbol 82
Atmospheric humidity 129, 163
Automatic power-off 25, 29, 39, 66, 76
Average value 40, 82, 87

B

Barcode 12, 29
Batteries 8, 37
    inserting or replacing 19
    symbol 22, 134
    types 20, 164
    useful life 21, 164
Battery compartment 8
Batteries, rechargeable 22, 164
Beep tone
    symbol 41, 131
    turning on 41
Bell symbol 49, 137
Blanking plate 114, 167
Blood
    applying to test strip 71
    obtaining 67
    too little applied 73
    volume 13, 70, 162
Blood drop symbol 65, 131
Blood glucose unit (mmol/L and mg/dL) 18, 24, 131
Bottle symbol 96, 99, 133, 145, 146

C

Causes of error 84, 105
Cleaning
    lancing device 111
    meter 107
Cleaning agents 107, 111
Cleaning fluids 107, 111
Clock symbol 34, 144
Concentration table 32, 96, 103, 105
Control solution 32, 96
    expiry date 106
Control window (test strip drum) 8, 30, 31, 36
Customer support and service 170

D

Data downloading (to PC, handheld computer, printer) 40, 92
Disinfectants 125
Display screens 6, 164
  examples 16, 130
Display test 24, 65
Disposal
  batteries 23
  control solution 106
  lancet 79
  meter 166
  test strip drum 28
  test strips 75
Drum compartment 6
Drum release button 7, 27
Drum symbol 32, 124, 130

E

Electromagnetic interference 139
Error message 84, 138
Expiry date
  control solution 106
  test strips 30

G

Guarantee 168

H

Highest value 89
Hypo symbol 55, 137
Hypo indicator 13
  setting 55
  symbol 55

I

Infection 112, 114
Infrared cable 93
Infrared window 8, 93
Intended use 1

L

Lancet 10, 59
  ejecting 79
  inserting 62
Lancing device 8, 12, 58
  description ..... 10 - 11
  docking 61
  priming 68
  undocking 60
Light source, interfering 129
Lot number 150

M

M button 7, 38, 87
Measurement conditions 126, 162
Measuring range 83, 162
Measuring time 72, 162
Measuring window 7
    cleaning 109
mem symbol 87, 132, 134
Memory (results) 86, 163
Messages (display) 130
Meter
    checking 96
    cleaning 107
    description ..... 6 - 9
    disinfecting 120
    storing 126, 163

N

NiMH batteries 22, 164

P

Patents 169
Penetration depth 58, 67
Penetration depth setting 10, 67
Plausible results 83
Plunger (lancing device) 10, 59, 68, 79

Q

Quality control check 35, 84, 96

R

Release button
    lancing device 8, 60
    test strip drum 7, 27
Result
    downloading to a PC, handheld computer or printer 40, 92
    flagging 82
    highest 89
    implausible 84
    lowest 89
    plausible 83
    retrieving from memory 87
Results memory 86, 163

S

S button 6, 38, 39
Settings 37
    alarm clock function 49
    beep tone 41
    changing 38
    date 21, 47
    hypo indicator 55
    time 21, 45
    time/date format 44
    year 21, 43

Setting the date 47
Setting the time 45
Setting the time/date format 44
Setting the year 43
Software 92
Sources of interference
electromagnetic 129
light 129
Storage conditions 126, 163
Symbols 15
asterisk 82
battery 22, 134
beep tone 41, 131
bell 49, 137
blood drop 65, 131
bottle 96, 101, 133, 145, 146
clock 34, 144
drum 33, 141, 147
flashing 16, 130
HI 83, 136
hypo? 55, 137
LO 83, 135
mem 87, 132, 134
test strip 65, 131, 156
thermometer 133, 134
System components 167

T

Technical data 162
Temperature range 126
Test principle 107, 162
Test strip 7, 12
ejecting 75
expiry date 30
symbol 65, 131, 156
Test strip drum 7, 12
inserting or replacing 26
lot number 133
partly used 33, 35, 36
use-by period 34, 142
Thermometer symbol 133, 134
Troubleshooting 130
Type plate 8

U

Use-by period (test strip drum) 34, 142

Accu-Chek® Compact Plus Warranty Card

Please let this card be completed by the dealer and preserve it carefully.

If this card was not filled out at the time of purchase please submit the original receipt with your claim.
Guarantee: The statutory provisions on rights in consumer goods sales in the country of purchase shall apply.

_____

Serial No.

_____ _____ _____

Date of purchase

_____

Stamp and signature of dealer

Warranty Card

Name

Street

City/post code

Telephone No.

Date

Signature